

# TARGETED BROWNFIELD ASSESSMENT

For

Oklahoma Army National Guard  
Former Haskell Armory  
Haskell, Oklahoma

ASTM E 1527-05  
Phase I Environmental Site Assessment  
All Appropriate Inquiry

Prepared by:



June 24, 2011

Prepared for:

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

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## **Phase I Assessment**

### **1.0 Executive Summary**

On April 22, 2011, Rachel Francks, John Reid, and Savannah Smith of the DEQ performed site reconnaissance of the Haskell National Guard Armory located at Township 16N, Range 15E, Section 26, NW $\frac{1}{4}$ , SE  $\frac{1}{4}$  Muskogee County, Oklahoma, as part of a Targeted Brownfield Assessment (TBA). The subject property is situated south of a tributary to Coal Creek and to the west of the Union Pacific (UP) rail line. The purpose of the TBA was to identify potential environmental concerns by reviewing historical data, regulatory information, and by performing a visual inspection of the site and surrounding area. The following is an executive summary of the environmental site assessment results:

- Recognized environmental conditions (REC) include the indoor firing range and the vent from the firing range on the roof of the armory. There are also some panels below the windows, sound reducing panels in the firing range, floor tiles, black mastic and insulation around pipes that may be asbestos containing materials (ACMs).
- The Haskell National Guard Armory was built in 1982 and is currently on the National Register of Historic Places. The property was managed and maintained by the Oklahoma Military Department (on behalf of the State of Oklahoma). Ownership of the subject property has been transferred to the City of Haskell as of the 13 September, 2010. The City Manager in agreement with the City of Haskell is currently working on clean up and development as well as using the building for city storage. Once clean up activities have occurred, the town hall will be moved into the building.
- There is one large building on the site that has a large garage and indoor firing range area. The offices surround the garage and the indoor firing range (IFR). There is a kitchen to the north of the garage that has grease traps still installed. All other appliances have been removed. There are pipes in the kitchen and the rooms to the west of the garage area that are surrounded by insulation that may be ACM. There is another small detached building made of corrugated metal. It doesn't appear to have any utilities hooked up to it and it doesn't have a door. The shed is in poor condition.
- The property contains an IFR that was last serviced in 2005. During the service the sand from the pit was piled outside the building before removal. There are no records of the exact location of the sand pile but it is assumed the sand would have been piled on the east side of the building near the door to the IFR. There was no sand found on any of the soil areas on the east side of the building and there was no distressed vegetation in the area. There was no sand present in the trap during the site visit and the backstop had also been removed. The IFR has a vent fan attached to the roof of the building. Soil samples were collected from around the rain gutter down spouts.

- Adjoining properties consist of the UP train tracks, residential areas, undeveloped land and an auto-body shop. Historical aerial photographs beginning in 1941 show the area as either undeveloped or agricultural land. Aerial photos from 1995 – 2010 show the area around the location to be occupied by agricultural fields to the west and residential housing to the north. The 1995 map shows the area across the highway as undeveloped. After 2003 the aerial photos show a church occupying the land across the highway and an auto-body shop approximately 800 ft to the SE.
- The property is located in rural Haskell, so Sanborn Fire Insurance maps do not show the subject property.
- No National Priority List (NPL), delisted NPL sites, Resource Conservation and Recovery Act (RCRA) non-corrective action sites (CORRACTS) treatment, storage, and disposal (TSD) listings, Emergency Response Notification System (ERNS) list, Institutional Controls/Engineering Controls, or State landfills and/or solid waste disposal sites were found on the subject property or within the ASTM recommended search radii. No RCRA generators, Voluntary Cleanup (VCP) sites, or Brownfield sites were found on the subject property. There were no RCRA generators listed within one mile of the subject property, and no archived Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) site listings.
- There was one underground storage tank on site. It had a 1,000 gallon capacity and was used to store gasoline. The tank was removed in 1998 and the case was closed with the Oklahoma Corporation Commission (OCC). At the time of removal the soil and the tank were tested with an Organic Vapor Meter (OVM) Photoionization Detector (PID) and there were no fuel vapors detected in the tank or in the soil. It is unknown how long the tank had been empty. When pulled the tank was in good condition with no holes. The hole was filled with clean soil. There was no sign of the UST or of soil staining, but the Haskell City Manager, Duane Points, told us they had recently had the parking lot repaved with new gravel. The UST is considered a historical recognized environmental condition (HREC).
- Oil and gas exploration was found in the OCC oil and gas records on the adjoining properties, but the holes drilled were dry. There was no record of oil and gas production on any adjoining sites.
- No transformers were noted around the armory building. Fluorescent lighting ballasts are located throughout the building. The lighting ballasts are all in good condition in most rooms. The condition of the lights in the shower rooms is uncertain because the lights wouldn't turn on during the site visit. All fluorescent bulbs contain mercury and should be handled as Universal Waste unless documentation and/or sampling demonstrate they are not hazardous.

## **2.0 Introduction**

The State of Oklahoma Department of Environmental Quality (DEQ) under a Brownfield Assistance Agreement (No. RP96681001-0) (Ref. 2) with the U.S. Environmental Protection

Agency (EPA) conducted a Targeted Brownfield Assessment of a property located at Township 16N, Range 15E, Section 26, NW $\frac{1}{4}$ , SE  $\frac{1}{4}$  Muskogee County, Oklahoma.

## **2.1 Purpose**

The purpose of this assessment is to look at the environmental conditions within the target area and provide this information to the City of Haskell as well as meet the All Appropriate Inquiry requirement of the landowner liability protections under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, better known as Superfund – Ref. 3), as provided in the Small Business Relief and Brownfield's Revitalization Act of 2002 (Public Law 107-118, Subtitle B – Ref. 5). The purpose of a Phase I Environmental Site Assessment is to identify, to the extent feasible, recognized environmental conditions in connection with the target property through a systematic review of readily available information sources and a site reconnaissance.

DEQ is providing technical assistance to the project by evaluating the environmental condition of the property prior to the City of Haskell converting the armory for use as a City Hall. Funding for this assessment has been provided by the U.S. Environmental Protection Agency (EPA).

## **2.2 Detailed Scope-of-Services**

DEQ examined the current use of the property and then identified the historical uses of the property to determine if recognized environmental conditions exist. DEQ examined historical documents, governmental databases, oil and gas records, aerial photographs, Sanborn Fire Insurance Maps, and conducted interviews and a site reconnaissance of the area. A good faith effort was made to identify possible environmental conditions that might affect the development of the property.

## **2.3 Significant Assumptions**

History and knowledge of the subject property shows that the building was used as a National Guard Armory. Prior to armory construction in 1982, the property was undeveloped land. There has been no oil and gas exploration on the property according to Oklahoma Corporation Commission records.

Since the building was constructed in 1982, the building may contain ACM. The U.S. began banning the use of asbestos in most building materials in the 1970s due to studies confirming the harmful health effects caused by exposure to airborne asbestos. Suspect floor and wall tiles with black mastic, as well as window panels and insulation were observed in the building during the site reconnaissance conducted on 22 April 2011. The DEQ plans to have a lead dust, lead paint and asbestos survey conducted on the property.

## **2.4 Limitations and Exceptions**

The purpose of an environmental site assessment is to identify actual or potential “recognized environmental conditions” that may result in liability, land use restrictions, or cause delays in revitalization. The ASTM Phase I Environmental Site Assessment E 1527 – 05 (Ref. 4) is the minimum standard for environmental due diligence in the real estate industry and meets the standard for All Appropriate Inquiry under the Small Business Liability Relief and Brownfields Revitalization Act of 2002. A diligent effort in accordance with generally accepted good commercial and customary standards and practices was undertaken to identify the “recognized environmental conditions” that might affect the revitalization project. However, the identification of old hazardous waste sites is an evolving process; therefore, DEQ cannot state with absolute certainty that no other potential hazardous waste sites are located in the area. This assessment was conducted under constraints of time, cost, and scope and reflects a limited investigation and evaluation. It reflects the normal degree of care and skill that is ordinarily exercised by environmental professionals conducting business in this or similar localities. In no event shall the DEQ or its employees be liable for any damages, injury, loss, cost or expense whatsoever arising in connection with the use or reliance on the information contained in this report, except as otherwise provided by law.

The information in this report is based on a review of governmental records, interviews with knowledgeable representatives of the property, information provided by the City of Haskell, and observations of the environmental professional. The result of this assessment, as written in this report, is valid as of the date of report. The assessment does not include sampling of rock, groundwater, surface water, or air. For qualifications of environmental professionals see Appendix I.

## **2.5 Special Terms and Conditions**

This assessment report has been prepared for the City of Haskell by the DEQ using EPA funding. Information about this report will be provided to the EPA for its files. This report and the working file are public record and subject to the Oklahoma Open Records Act and the federal Freedom of Information Act.

# **3.0 Site Characterization and History**

## **3.1 Location and Legal Description**

The subject property is located in the NW quadrant 194<sup>th</sup> and Duncan St. NW of Haskell, Oklahoma along highway 64 approximately 1 mile. This property consists of approximately 8 acres of land and contains the former National Guard Armory building. A site map and topographical map depicting the property have been provided in Appendix A.

The subject property is located in Section 26, Township 16N, Range 15E, NW $\frac{1}{4}$ , SE  $\frac{1}{4}$  of Muskogee County, Oklahoma.

Records at the Muskogee County Courthouse were searched to determine ownership and operational history of the subject property. It was determined that the property was previously owned by the Town of Haskell and deeded to the Oklahoma Military for the State of Oklahoma in 1978 for the purpose of building a National Guard Armory. Prior to 1978 the property was unoccupied.

### **3.2 Site and Vicinity Characterization**

The former Haskell Armory was built in 1982. According to Muskogee County land records, the land for the building was deeded by the City of Haskell, on August 7, 1978, for benefit of the Oklahoma National Guard (see Appendix J). The subject property is a tract of land about eight acres in size. The subject property is located at 1600 Haskell Blvd, Haskell, Oklahoma bound by Haskell Blvd. on the west, and UP train tracks on the east. The areas where the subject property and adjacent properties are located are best characterized by rural development and undeveloped land. Undeveloped land surrounds the property to the south, agricultural fields are to the east and there are rural residential areas to the north and west across the highway.

Asbestos may be present onsite due to the age of the building. Utilities that serve the subject property are the City of Haskell for natural gas and OG&E for the electric, and the City of Haskell provides water and sewer services to the armory according to Duane Points, city manager for the City of Haskell.

A review of the topographical map indicated that the surface elevation of the site is approximately 600 feet above mean sea level. The topographical gradient is to the north/northwest, toward a tributary of Coal Creek. The Coal Creek tributary is located approximately 0.12 miles north of the site. Coal Creek is located 0.7 miles north and east of the subject property. The topographical map can be found in Appendix G.

### **3.3 Description of Structures, Roads, and Other Improvements**

The structure of the armory is in fair condition. The roof of the building has holes in several locations; the kitchen and scullery, the machine room, the drill floor, the garage, and some of the classrooms. There are leaks in locations where pipes come down from the roof or ceiling. The floor was damaged in several places and black mastic was visible in the areas where the white tiles had been removed. In addition there was damage to the concrete floor in the room with the vault door. Windows were in good condition at the Armory. Roads surrounding the Armory and the parking lot are in good condition. According to Duane Points, the city administrator for the City of Haskell, the parking lot around the

armory was recently regraveled. All roads are constructed of asphalt pavement. Adjacent properties, which consist of a residential and undeveloped land, are in fair condition. Throughout the facility, there are floor drains. Based on previous armories, it is thought that these drains lead into the city sanitary sewage pipes, but at the time of this report that could not be confirmed.

### **3.4 Owner, Property Manager, and Occupant Information**

The subject property is owned by the City of Haskell and is currently unoccupied. The DEQ Site Cleanup Assistance Program (SCAP) is in charge of identifying environmental hazards and conducting the cleanup of the Armory. The Military department transferred ownership of the armory to the City of Haskell prior to completion of remedial activities.

### **3.5 Information Reported by User Regarding Environmental Lien or Specialized Knowledge or Experience**

The property owner and/or representatives reported no environmental liens on the subject property, and had no specialized knowledge or experience regarding recognized environmental conditions. The DEQ conducted a search for environmental liens at the Seminole County Courthouse. No environmental liens or use limitations were reported for the subject property.

### **3.6 Commonly Known or Reasonably Ascertainable Information**

Duane Points, city administrator for the City of Haskell, had no exceptional knowledge of commonly known or reasonably ascertainable information within the local community about possible environmental conditions on the property. It is known within the community that the building functioned as a National Guard Armory.

### **3.7 Valuation Reduction for Environmental Issues**

Valuation of the property is outside the scope of this assessment. A professional appraiser should be consulted to place a value on the property.

### **3.8 Current Use of the Property**

The property is currently being used to store some items for the city of Haskell, but is largely unused.

### **3.9 Past Use of the Property**

#### **3.9.1 Review of Aerial Photographs**

Historic aerial photographs were searched to view the changes to the property over time. Aerial photographs were obtained from the Department of Libraries and the DEQ database of archived and present-day photographs. Aerial photographs from 1941, 1995, 2003, 2005, and 2010 were obtained. All these photographs are located in Appendix B. The following represents a summary of what was found at the subject property from each photograph.

##### *1941 aerial photograph*

The 1941 aerial photograph shows the subject property to be next to highway 64 to the west, and Texas and Pacific train tracks to the east. All the land surrounding and on the site is agriculture use. There is a tributary to Coal Creek going from the southwest to the northeast to the north of the property.

##### *1995 aerial photograph*

The 1995 aerial photograph shows the subject property to be near residential development to the north, Texas and Pacific train tracks and agriculture development to the east, and undeveloped land to the south and the west. The property contains a driveway and parking lot and the building is visible but the eastern portion of the property is otherwise undeveloped. Highway 64 is to the southwest of the property. There is a tributary to Coal Creek going from the southwest to the northeast to the north of the property.

##### *2003 aerial photograph*

The 2003 aerial photograph shows the subject property to be near residential development to the north, Texas and Pacific train tracks and agriculture or undeveloped land to the east, and commercial development to the south and the west. The property to the south appears to be a church with a large parking lot and the property to the west is some other commercial property. The land to the southeast is undeveloped. The armory property contains a driveway and parking lot and the building is visible but the eastern portion of the property is otherwise undeveloped. Highway 64 is to the southwest of the property. There is a tributary to Coal Creek going from the southwest to the northeast to the north of the property.

#### 2005 aerial photograph

The 2005 aerial photograph shows the subject property to be near residential development to the north, Texas and Pacific train tracks and agriculture or undeveloped land to the east, and commercial development to the south and the west. The property to the south appears to be a church with a large parking lot and the property to the west is some other commercial property. The land to the southeast is undeveloped. The armory property contains a driveway and parking lot and the building is visible but the eastern portion of the property is otherwise undeveloped. Highway 64 is to the southwest of the property. There is a tributary to Coal Creek going from the southwest to the northeast to the north of the property.

#### 2010 aerial photograph

The 2003 aerial photograph shows the subject property to be near residential development to the north, Texas and Pacific train tracks and agriculture or undeveloped land to the east, and commercial development to the south and the west. The property to the south appears to be a church with a large parking lot and the property to the west is some other commercial property. The land to the southeast is undeveloped. The armory property contains a driveway and parking lot and the building is visible but the eastern portion of the property is otherwise undeveloped. Highway 64 is to the southwest of the property. There is a tributary to Coal Creek going from the southwest to the northeast to the north of the property.

### **3.9.2 Fire Insurance Maps**

The location is outside of the area covered by Sanborn Maps.

### **3.10 Current and Past Uses of Adjoining Properties**

The areas around the site are mostly residential or agriculture/unused fields. There is an autobody shop to the south of the site, but it is not on the RCRA generator lists.

### **3.11 Environmental Setting**

The DEQ reviewed several sources to obtain information on the physical setting of the subject property and its surrounding areas. These sources include: The United States Department of Agriculture Oklahoma County Soil Survey, Oklahoma Geological Survey, and the Federal Emergency Management Association. Review of the physical setting of the area is to evaluate the sensitivity of the hydrogeology to potential contamination from sources either on or near the site.

### **3.11.1 Surface Water Characteristics**

The topography of the area is relatively flat. The Haskell Armory is located at a surface elevation of approximately 600 feet above mean sea level. The topographical gradient is to the north-northwest, toward the Coal Creek tributary. The Coal Creek tributary is located approximately 0.12 miles north of the site. Coal Creek is located 0.7 miles north-northeast of the subject property. No surface water bodies are on the subject property or the adjoining properties.

According to the Federal Emergency Association, the subject property is in an area outside the 500 year flood plain. According to FEMA (Ref. 14), Zone X is outside the flood plain. The structure lies outside of the flood boundary line. A map of this information is located in Appendix F.

### **3.11.2 Subsurface Geological Characterization**

According to the Soil Survey of Muskogee County, Oklahoma, the subject property consists mainly of Verdigris silt loam. Verdigris soils comprise around 5% and are characterized by a slope of 0 to 1 percent, a water table depth of more than 80 inches, and a moderately high to high water capacity. Dennis silt loam comprises 95% of the subject property area of interest and is characterized by a slope of 1 to 3 percent, a water table depth of 12 to 30 inches, and high water capacity (Ref. 16).

### **3.11.3 Ground Water Characteristics**

The hydrogeology as reported by Oklahoma Water Resource Board indicates the site isn't on any major or minor groundwater source. Throughout most of the area, the substrata are not favorable for the production of ground water. There are no major groundwater aquifers in this area. Oklahoma Water resources board states that the closest aquifer in this area is the Arkansas River Alluvium and Terrace approximately 2.3 miles to the east. The site is outside of the vulnerability area for the aquifers. The subject site obtains its drinking water from the City of Haskell, which uses surface water as its water source.

### **3.11.4 Air Characteristics**

No air emissions were noticed at the subject property or the adjoining properties. The DEQ dataviewer database was searched for Air Quality Permitted Facilities (AQPF). No AQPF were found within 1 mile radius from the subject property. No odors were noticed outside of the subject property during the site visit. There is a potential for lead dust and asbestos emissions from the subject property.

## **4.0 Records Review**

A regulatory database search was conducted by the DEQ. This search included, at a minimum, those records and distances from the site dictated as appropriate in the ASTM standard. The DEQ performed a review of available federal and state databases to assess whether the subject property or proximate properties were listed as having environmental concerns, which could have an adverse impact on the subject property. The following provides a summary of the databases reviewed.

### **4.1 Federal National Priorities List (NPL)**

A search of the Environmental Protection Agency's NPL database shows no current NPL sites within a mile radius of the subject property (Ref 8). The subject property is not an NPL site.

The database also shows no delisted NPL sites within a half mile radius of the property.

### **4.2 Federal CERCLIS List**

The EPA database for Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Information Systems (CERCLIS) was searched for active and archived CERCLIS sites on and near the subject property (Ref. 9). The ASTM's recommended search radius for the subject property for both active and archived CERCLIS sites is  $\frac{1}{2}$  mile. No CERCLIS sites were found within a  $\frac{1}{2}$  mile radius of the site. The property is not listed as an active CERCLIS site.

The subject property is also not listed in the archived CERCLIS site list. There are no archived sites within a  $\frac{1}{2}$  mile of the subject property.

### **4.3 Federal RCRA CORRACTs List**

A database search of RCRA CORRACTs List showed no RCRA locations on the property or within a mile of the site.

### **4.4 Federal RCRA non-CORRACTS TSD List**

A database search of RCRA CORRACTs List showed no RCRA non-CORRACTS locations on the property or within a half mile of the site.

### **4.5 Federal RCRA Generators List**

A database search of RCRA CORRACTs List showed no generator locations on the property or on any adjacent properties.

#### **4.6 Federal ERNS List**

Emergency Response Notification system (ERNS) maintained by the National Response Center was searched for any hazardous substance releases or spills within the subject property (Ref. 11). ASTM requires a minimum search distance of property only when identifying ERNS cases. No ERNS sites were reported within the property or the adjoining properties.

#### **4.7 Federal Institutional Control/Engineering Control Registries**

There were no institutional controls reported by the Oklahoma Military Department. Duane Points did not know of any institutional controls that had been put in place.

#### **4.8 State-Equivalent NPL**

The DEQ does not have a State-equivalent NPL database. Oklahoma does not have a State Superfund law to establish a State-equivalent NPL database.

#### **4.9 State-Equivalent CERCLIS**

The DEQ does not have a State-equivalent CERCLIS database.

#### **4.10 State Landfill and / or Solid Waste Disposal Sites**

An online search of landfill resources showed no landfills on the property or within a half mile of the site.

#### **4.11 State Leaking UST List**

The Oklahoma Corporation Commission UST Notification Database was searched to locate any known leaking underground storage tanks (LUSTs) sites located within the ASTM's minimum search distance of a  $\frac{1}{2}$  mile of the subject property. No LUST sites were found within the  $\frac{1}{2}$  mile radius.

#### **4.12 State Registered UST Sites**

The Oklahoma Corporation Commission UST Notification Database was searched to locate registered underground storage tanks (UST) located within the ASTM's minimum search distance of the subject property and its adjoining properties. No registered USTs were found on the adjoining properties. The subject property formerly contained a 1,000 gallon gasoline UST on the property. The UST was removed October 22, 1998 from the subject property (Appendix L). No leaks were reported to the OCC for the UST.

Following the tank removal the soil was sampled from seven feet below the surface five feet from the south wall (down gradient) of the tank and the center of the tank pit. Soil samples collected below the fuel island were below the OCC action levels for TPH and BTEX. The site was closed within prescribed standards by OCC on November 10, 1998. This is considered a historic REC due to the potential soil and groundwater impacts. For a map of UST sites near the subject property, see Appendix B.

#### **4.13 State Institutional Control/Engineering Control Registries**

A database search of the ODEQ's Brownfields webpage showed no institutional controls or engineering controls on the property or within a half mile of the site. Duane Points, city administrator for the City of Haskell, did not know of any controls on site.

#### **4.14 State Voluntary Cleanup Sites**

A database search of Voluntary Clean Up sites showed no VC locations on the property or within a half mile of the site.

#### **4.15 State Brownfield Sites**

An online search of Brownfield resources showed no Brownfield sites on the property or within a half mile of the site.

#### **4.16 Oil and Gas Records**

The subject property is located in the NW ¼ SE ¼ SE ¼ of Section 26 T16N R15E. The DEQ performed a search of oil and gas records from the Oklahoma Corporation Commission's (OCC) oil and gas records database. The subject property is in an area where there is a history of oil and gas development. Oil and gas records were searched to record the known history of well development on and near this site. A search area consisted of the property as described from the legal location above and the quarter, quarter, quarter sections directly above and up gradient of the site. No well records were found on site or in adjacent or up gradient areas. Wells near the area are located in Appendix H.

### **5.0 Site Reconnaissance and Interviews**

#### **5.1 Methodology and Limiting Conditions**

A site reconnaissance of the subject property located at 1600 Haskell Blvd. was performed on April 22, 2011. Rachel Francks, John Reid and Savannah Smith of the DEQ met the caretaker of the property, Duane Points (City Administrator, Haskell) at the property. Mr.

Points introduced Francks, Reid, and Smith to the site and answered questions to the best of his knowledge on the site. Mr. Points lead DEQ inside the building and gave his knowledge about what the building was used for and what kinds of activities occurred there in the past. All areas of the building were observed noting any environmental conditions that might need additional investigation. The entire outside area of the subject property was walked through for observations that might need additional investigation as well.

## **5.2 General Site conditions**

The former Haskell Armory Property is composed of a brick building of approximately 14,550 square feet that was built in 1982 and has an IFR. The building is currently occupied by the City of Haskell. The property surrounding the building consists of a grassy residential area to the north; a church and residential area to the west; a small gravel parking area, and autobody shop to the south; and a gravel parking lot and grassy area to the east. The subject property is outside of town and paved streets are located to the west of the subject property. The following are general site conditions that were evaluated on the property and adjacent properties.

### **5.2.1 Aboveground Storage Tanks (ASTs)**

There were no ASTs at the site, nor was there any indication that there had been at any point.

### **5.2.2 Landfills and/or Dumping**

There was no indication that any part of the property had been used as a landfill at any point.

### **5.2.3 Impoundments**

There was no standing water on the property. There is a ditch between the road and the parking lot for the armory. There was no water in it at the time of the site visit.

### **5.2.4 Monitoring Wells**

There were no wells noted during the site visit. The OWRB data viewer has no record of wells being located on the property.

### **5.2.5 Disturbed and Stained Soils**

There were no disturbed soils during the site visit. The vegetation around the armory appeared to be in good condition and did not appear distressed. There were no stained soils visible, but Duane Points mentioned that the parking lot around the armory had recently had new gravel laid on it.

#### **5.2.6 Seeps**

No seeps of any kind were observed at the subject property.

#### **5.2.7 Chemical Spills**

No evidence of possible chemical spills was observed on the subject property.

#### **5.2.8 Farm Waste**

No farm waste was observed at the subject property.

#### **5.2.9 Known Pesticide Misapplication**

No known pesticide misapplications were detected during the site visit or during the supportive research.

#### **5.2.10 Discharges and Runoff from Adjacent Property Affecting the Site**

Rainwater runs off the east side of the subject property. DEQ observed pooled water in the concrete floor of the Drill Hall that may be due to rain events and the disrepair of the roof. No potential pollutants were observed on the neighbor's properties that may affect the armory.

#### **5.2.11 Petroleum Products and Oil and Natural Gas Exploration**

No petroleum products or oil and natural gas exploration was observed during the site visit.

#### **5.2.12 Asbestos**

Since many of the State armories were built before the 1970s, there is a high potential of finding asbestos containing material (ACM) in the armory buildings. The U.S. began banning the use of asbestos in most building products in the 1970s due to studies confirming the harmful health effects caused by exposure to airborne asbestos. ACM may be found in the insulation wrapping of the heating pipes and/or heaters, roofing materials, ceiling tiles, window putty,

mastic, and floor tiles. Floor tiles that are 9"x9" have been found to regularly contain asbestos.

The building may contain ACM; however, DEQ's contractor is in the process of sampling and analyzing asbestos, lead dust and conducting a lead-based paint assessment in the armory. 12"x12" inch tiles were found in most of the classrooms and hallways. Some of the tiles appear to have been damaged and removed. Black mastic is visible where tiles are missing. The window seal putty throughout the facility may contain asbestos. This material is usually suspect for ACM. Thermal system insulation was observed and could be present on some of the utility pipes in the building. There are acoustic tiles in the IFR and panels below the windows that may also contain asbestos.

#### **5.2.13 Lead**

The building most likely contains lead dust. Surveys for lead-based paint and lead dust throughout the building will be conducted by a contractor for the DEQ. The results have not been received by the DEQ. However, there is a potential for lead based paint and lead dust in the building. There is an IFR in this building, so any lead dust is most likely due to activities from the range or gun cleaning activities. Samples collected by DEQ along downspouts from the gutters attached to the roof near the IFR vent show lead levels are below screening levels.

#### **5.2.14 Transformers/PCB Equipment**

There were no transformers observed around the subject property.

### **5.3 External Observations**

The exterior of the building is in fair condition. Some of the holes that were noted inside were visible from the outside. These are just below the roof line. There is some water damage to panels that are below the windows (See Appendix E).

### **5.4 Internal Observations**

The building is currently unoccupied and was last used by the Oklahoma Army National Guard to support the military mission. The one story building was constructed from brick in 1982. Before construction of the armory building, the land was owned by the City of Haskell and was vacant land. During the site visit on April 22, 2011, holes were observed in the roof. There was no standing water in the building at that time, though Duane Points said that some areas had some and there were signs of water damage to insulation and on the floor.

No chemicals or military equipment were observed on site. Photographs of the internal view of the site can be found in Appendix F.

## 5.5 Interviews

Duane Points was listed as the point of contact for the armory. He has limited knowledge of the site and was listed as the point of contact because of his position as city administrator of the City of Haskell. Therefore interviews were not utilized in determining the operational history of the site.

## 6.0 Findings

Summarized below are the major findings from this Targeted Brownfield Assessment and DEQ's recommendations. The major findings of the highest environmental concern are presented first.

- The former Haskell Armory was built in 1982. The land for the building was deeded by the City of Haskell to the Oklahoma Military for the State of Oklahoma, for benefit of the Oklahoma National Guard. The armory is currently owned by the City of Haskell and will be conveyed to the city prior to cleanup activities. A Memorandum of Agreement (MOA) will be set in place between the OMD and the DEQ. Once cleanup activities have occurred, a notice of remediation and easement will be filed in the Muskogee County Courthouse.
- The building is probably contaminated with lead dust, lead-based paint, and asbestos. The Oklahoma Department of Environmental Quality Site Cleanup Assistance Program plans to remediate any lead and asbestos contamination on the subject property and properly dispose of all associated waste. The possible lead and asbestos contamination in the building may constitute a recognized environmental condition (REC).
- OCC records show the property formerly contained a 1,000 gallon underground storage tank (UST) that was removed October 22, 1998. Soil samples collected below the fuel island were below the OCC action levels and the tank itself was in good condition. The former UST is considered a HREC.
- Adjoining properties consist of residential houses, an autobody shop and undeveloped land. Historical aerial photographs show undeveloped land surrounding the subject property. Autobody shops are often RCRA generators, but the autobody shop next to the armory wasn't listed on the RCRA generator list.
- No National Priority List (NPL), delisted NPL sites, Resource Conservation and Recovery Act (RCRA) non-corrective action sites (CORRACTS) treatment, storage, and disposal (TSD) listings, Emergency Response Notification System (ERNS) list, Institutional Controls/Engineering Controls, or State landfills and/or solid waste disposal sites were found on the subject property

or within the ASTM recommended search radii. No RCRA generators, Voluntary Cleanup (VCP) sites, or Brownfield sites were found on the subject property. The subject property is on the DEQ Site Cleanup Assistance Program (SCAP) list for cleanup of lead and asbestos contamination. There were seven RCRA generators listed within one mile of the subject property, and two archived Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) site listings.

- No underground storage tank sites were found within a  $\frac{1}{2}$  mile radius of the subject property.
- Oil and gas development was found in the OCC oil and gas records for the quarter, quarter, quarter sections directly above and upgradient of the site. All wells drilled in the  $\frac{1}{2}$  mile area of the site were dry. No development occurred at the wells near the site. There is no record of oil and gas development onsite.
- No transformers were noted at the site. Fluorescent lighting ballasts are located throughout the building. The lighting ballasts are all in good condition. The lighting ballasts may be a source of mercury.

## **7.0 Opinion and Recommendations**

Due to the past use of the property and contamination found on the subject property, the environmental professionals working on this site believe that cleanup of lead and asbestos will be necessary.

## **8.0 Data Gaps**

No tribal information was obtained for this assessment. No tax records, city directories, or zoning records were reviewed for this report. No interviews of the operational history of the building were conducted. However, this did not affect the ability of the DEQ to make a recommendation on the subject property

## **9.0 Conclusions**

DEQ has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of the former Haskell armory located at 1600 Haskell Blvd. Haskell, Oklahoma. Any exceptions to, or deletions from, this standard are described in Section [10.0] of this report. Recognized environmental conditions on this property include lead dust, lead-based paint, and asbestos contamination throughout the building. The former UST is also considered and HREC.

The information provided in this assessment is to assist the City of Haskell in its revitalization planning as well as meet the All Appropriate Inquiry requirement of the landowner liability

protections under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, better known as Superfund – Ref. 3), as provided in the Small Business Relief and Brownfields Revitalization Act of 2002 (Public Law 107-118, Subtitle B – Ref. 2).

## **10.0 Additional Services**

In addition to this Phase I Targeted Brownfield Assessment, DEQ will provide sampling analysis of potential asbestos, lead-based paint, and lead dust sources including the remediation of the building. Soil sampling was conducted outside of the armory to check for lead contamination in the soil.

## **11.0 Deviations**

The following deviations from ASTM Practice E 1527-05 occur in this Phase I Targeted Brownfield Assessment. No tax records, city directories, or zoning records were reviewed for this report. Soil sampling was conducted only in areas considered likely to be contaminated by lead from the IFR vent.

## **12.0 References**

1. Bridgewater, J. Oklahoma Department of Transportation, Rail Programs Division. (2011). Oklahoma freight & passenger rail plan Oklahoma City: Retrieved from [http://www.okladot.state.ok.us/rail/rail-plan/pdfs/open\\_house\\_boards.pdf](http://www.okladot.state.ok.us/rail/rail-plan/pdfs/open_house_boards.pdf)
2. U.S. Environmental Protection Agency. (2008). Oklahoma *Brownfields Assistance Agreement (No #RP96681001-0)*. Unpublished Document. State of Oklahoma: Oklahoma City, Oklahoma.
3. U.S. Environmental Protection Agency. (1980). Comprehensive Environmental Response, Compensation, and Liability Act. (Public Law 96-510). Washington, DC: U.S. Government Printing Office.
4. U.S. Environmental Protection Agency. (2002). Small Business Liability Relief and Brownfields Revitalization Act. (Public Law 107-118, Subtitle B). Washington, DC: U.S. Government Printing Office
5. ASTM International. (2005). Water and Environmental Technology: Phase I Environmental Site Assessment E 1527 – 05. Baltimore, Maryland.
6. Rachel Francks, Oklahoma Department of Environmental Quality, interview notes with former Haskell City Administrator Duane Points, April 22, 2011, Haskell Armory.
7. EPA NPL list: <http://www.epa.gov/superfund/sites/npl/status.htm>.
8. Deleted NPL sites database: <http://www.epa.gov/superfund/sites/query/queryhtm/npldel.htm>
9. CERCLIS current and archived sites: <http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>.
10. RCRA database: [http://www.epa.gov/enviro/html/rcris/rcris\\_query\\_java.html](http://www.epa.gov/enviro/html/rcris/rcris_query_java.html).
11. Emergency Response Notification System: <http://www.nrc.uscg.mil/foia.html>.
12. State Landfill site list: <http://www.deq.state.ok.us/LpDnew/swindex.html>.
13. Oklahoma Department of Environmental Quality online data viewer. [www.deq.state.ok.us](http://www.deq.state.ok.us)
14. Federal Emergency Management Association (FEMA). <https://msc.fema.gov>.
15. RCRA NOTIFIERS sorted by county and then city:  
<http://www.deq.state.ok.us/LPDnew/HW/Notifiers/notifiersbycountycity.pdf>.
16. United States Department of Agriculture, Natural Resources Conservation Service. (n.d.). Web soil survey Retrieved from <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>
17. "OWRB Custom Map Viewer." Data Driven Map Viewers. Web. 14 Mar 2011.  
<http://www.owrb.ok.gov/maps/server/wims.php>.

## **13.0 Appendices**

### A. Oklahoma Corporation Commission Oil and Gas Records

**Oklahoma Corporation Commission**  
Oil & Gas Conservation Division  
**Well Browse-Query Results**  
February 24, 2011

R	Api Number	Oper No.	Well Name	Well #	Class	OG	UIC	Sec	Twp	Rng	M	Qtr	Qtr	Qtr	Qtr
101	03031	09998 0	PETERSON	1	DRY	PA		26	16N	15E	IM		NW	SW	SW
101	03033	09998 0	DAVIS	1	DRY	PA		26	16N	15E	IM		NW	NE	NE
101	04651	09998 0	DAVIS ELLEN	1	DRY	PA		26	16N	15E	IM	NW	NW	NW	NE

431075

9 9 0 0 0 0 5 0 0 2 6

FORM 1003-8-20-18

## Corporation Commission of Oklahoma

## PLUGGING RECORD

County Muskogee Company PETERSON BROTHERS.  
 Farm Ellen Davis Section 26 Township 16N Range 15E Well No 1.  
 Character of Well (whether it was Oil or Gas or Dry) Dry  
 Total depth 1800 feet Top of each producing sand None feet  
 Was the well filled with mud laden fluid according to regulations of the Corporation Commission? Yes.  
 Was Well shot? No Show all shoulders left for casing, depth of each, and size of casing used, size and kind of plugs used, and depth placed Also amount of cement and rock  
 97 feet of 10" casing set; 1420 feet of 8" casing set; Hole filled with mud laden fluid and all casing pulled.

Show depth found and thickness of all fresh water, oil and gas formations No water found; Oil sand found at 1336 feet and being 7 feet thick. (Non-Productive.)

The names of adjacent lease, royalty and land-owners with their address in each instance is as follows

Peterson Brothers, Haskell, Oklahoma.  
 Ed Brittenham, Haskell, Oklahoma.  
 Frank Stanfield, Haskell, Oklahoma.

Date well was plugged April 29th. 1920.


 Representative of Company

Correspondence regarding this well should be addressed to Name Peterson Brothers,

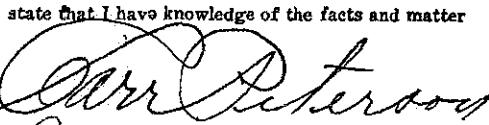
Address Haskell, Oklahoma.

 being first duly sworn on oath, state that I have knowledge of the facts and matter herein set forth and that the same are true and correct

Subscribed and sworn to before me this

30<sup>th</sup> day of

19 20.

 Notary Public

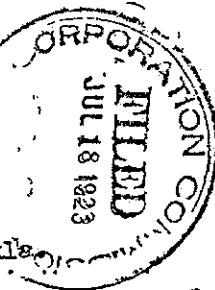
My Commission expires

April 19<sup>th</sup> 19 24

9900005002

Form 1002

## WELL RECORD



Mail to Corporation Commission, Oklahoma City, Okla.

Company Peterson Brothers Address Haskell, Okla.

County Muscogee Farm Davis Section 26 Township 16 N. Range 15 E. Well No. 1.

Drilling Commenced April 3rd, 1920. Drilling Completed April 24th, 1920.

Correspondence regarding well should be sent to ..... Address .....

CASING RECORD  
SHOW COMPLETE RECORD

SIZE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND SHOES
	FT.	IN.	FT.	IN.	FT.	IN.	
10-	97		97				
8½	1420		1420				

Character of well (oil, gas or dry hole) Dry Filled to top with drillings.

Oil well, initial production in barrels (per day—per hour, state which) .....

Gas well, rock pressure Volume ..... cu. ft. Wet or Dry Gas.....

Name of drilling contractor .....

Elevation above sea level at top of casing .....

Location of well in Section NW. corner of NE<sup>1/4</sup> of 26-16-15.

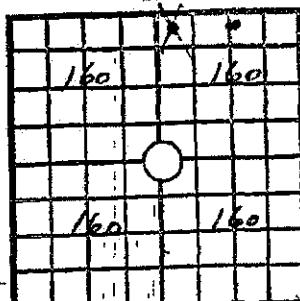
State whether drilled with rotary or standard tools Standard .....

## General Remarks

This is a true copy of record filed with Corporation commission

April 20th, 1920.

804967



C O P Y.

## FORMATION RECORD

Show all formations, especially all sands and character and contents thereof.

FORMATIONS	TOP	BOTTOM	REMARKS
Soil	0	2	
Gray Shale	2	38	
Sand	38	44	
Slate	44	500	
Brown Shale	500	675	
Slate	675	810	
Lime	810	818	
Shale	818	1105	
Lime	1105	1112	
Slate	1112	1120	
Gray Lime	1120	1245	
Sandy Shale	1245	1265	
Brken Lime	1265	1300	
Slate	1300	1320	
xSandx Black lime	1320	1324	Small showing of oil
Lixeslate	1324	1336	
Sand	1336	1343	Showing of oil
Lime	1343	1345	
Brown shale	1345	1360	
White shale	1360	1376	
Gray lime	1376	1396	
Sandy lime	1396	1414	
Gary Lime	1414	1450	
Black mud	1450	1462	
Lime	1462	1480	
Slate	1480	1598	
Black Lime	1598	1601	
Sandy Lime	1601	1612	
Black Lime	1612	1670	
White mud	1670	1676	
Slate	1676	1704	
Black lime	1704	1720	
Brown shale	1720	1763	
Gray Lime	1763	1800	

### Method of shutting off water

Is water completely shut off?

- Amount of water with oil

per cent Is oil cut?

first duly sworn on oath, state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

~~Miss Intern.~~  
Representative of Company

Subscribed and sworn to before me this the

day of

tion expires

192.

~~Notary Public~~

B. Oklahoma Corporation Commission UST records

1 facilities



# TANK CLOSURE SUMMARY SHEET

FACILITY ID NUMBER: 5113994

CASE NUMBER (if applicable): \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_

Number of USTs at facility (reported): 1

Number of USTs at facility (actual): 0

Number of USTs being closed: 1

**OWNER/OPERATOR:**

NAME	JOB TITLE	ADDRESS	PHONE #
------	-----------	---------	---------

Oklahoma Military Dept

TANK ID #:	TANK NO.	TANK NO.	TANK NO.	TANK NO.
------------	----------	----------	----------	----------

	<u>1</u>			
--	----------	--	--	--

EST DATE LAST USED:				
---------------------	--	--	--	--

EST TANK CAPACITY (gal):				
--------------------------	--	--	--	--

FAC DATABASE	<u>1,000</u>			
--------------	--------------	--	--	--

AFTER CLSR REVIEW	<u>1,000</u>			
-------------------	--------------	--	--	--

TANK REMOVED (Date):	<u>10-22-98</u>			
----------------------	-----------------	--	--	--

TANK CLSD IN GRD(Date):				
-------------------------	--	--	--	--

TANK FILLED WITH:				
-------------------	--	--	--	--

SCHEDULED CLOSURE: Yes X; No \_\_\_\_\_

SITE ASSESSMENT COMPLETED: Yes X; No \_\_\_\_\_

• TESTING SOIL OR GW;

• USING EXTERNAL LEAK DETECTION:  
VAPOR MW \_\_\_\_\_; GROUNDWATER MW \_\_\_\_\_.

EVIDENCE OF LEAK DETECTED: Yes \_\_\_\_\_; No X.

NUMBER OF NEW TANKS INSTALLED (see attached 7530 for details): 0

Benson Morris  
Technical Staff Reviewer

12-31-98  
Date

*MG*  
RECEIVED  
UST/AST Dept.

NOV 12 1998

Oklahoma Corporation  
Commission

## UNDERGROUND STORAGE TANK

### CLOSURE REPORT

FORMER NATIONAL GUARD ARMORY

HASKELL, OKLAHOMA

**Prepared For:**  
**Oklahoma Military Department**

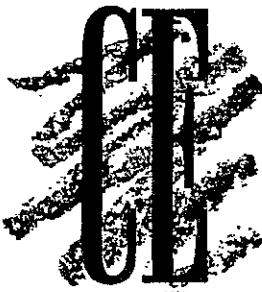
**Prepared By:**



11/12/98  
PETROLEUM  
REGULATORY  
DIVISION  
OKLAHOMA  
CORPORATION  
COMMISSION

CALDWELL ENVIRONMENTAL ASSOCIATES, INC.  
NORMAN, OKLAHOMA  
November, 1998

November 10, 1998



Salim Douglah  
Oklahoma Corporation Commission  
Jim Thorpe Building, Room 238  
P.O. Box 52000-2000  
Oklahoma City, Oklahoma 73152-2000

Re: Oklahoma Military Department  
UST Closure, Former Armory, Haskell, Oklahoma

Dear Mr. Douglah:

Please find the attached closure report for the Underground Storage Tank (UST) located at the Former National Guard Armory in Haskell, Oklahoma. One steel, 1,000 gallon UST was located on the south side of the Former Armory building. On October 2, 1998, Caldwell Environmental Associates, Inc. (CEA) excavated one 1,000 gallon UST that had been used to store gasoline. The tank and associated piping were in excellent condition with no holes or leaks. Two native soil samples were collected from the UST excavation for laboratory analysis after the UST was removed. Sample #1 was collected approximately five feet below the middle of the UST (11 feet BGS). Sample #2 was collected approximately seven feet below the ground surface (BGS) from the south wall (downgradient) of the excavation pit. The BTEX and TPH gasoline levels were reported below detection limits and below the Oklahoma Corporation Commission action levels in both samples. If you have any questions concerning this report, please call me at 329-7167.

Sincerely,

Terry Andrews  
Senior Hydrogeologist

LZ 45 11/10/98

cc: Captain Terrance Smith, OMD

NOV 10 1998  
30. G. S. FETTER, P.E.  
C. E. COOK

Caldwell Environmental Associates, Inc.  
P.O. Box 1608 / Norman, OK 73070 / (405) 329-7167

**OKLAHOMA CORPORATION COMMISSION**

Fuel Division, UST/AST Program  
P.O. Box 52000-2000  
Oklahoma City, OK 73152-2000  
(405) 522-4640

**CLOSURE REPORT  
FOR  
PERMANENTLY CLOSED UNDERGROUND STORAGE TANKS**

**PLEASE SUBMIT THIS COMPLETED FORM ALONG WITH ATTACHMENTS WITHIN  
45 DAYS OF THE SCHEDULED CLOSURE.**

1. Facility Identification Number. 5113994 unregistered
2. Facility location Name and Address  
Former National Guard Armory  
101 South Creek Street  
Haskell, Oklahoma
3. Owner's Name and Address.  
Oklahoma Military Department Contact: Captain Terrence Smith  
Directorate of Engineering, Environmental Office  
3517 Military Circle  
Oklahoma City, Oklahoma 73111-4398
4. Date Work Accomplished: 10/22/98
5. Number and size of tanks remaining at this facility  
None.
6. Number and size of tanks removed.  
One 1,000 gallon tank.
  - (a) Condition of removed tanks. Are there any holes present? No.
  - (b) Describe the disposal and/or disposition of the tank(s). A large hole was cut in the end of the tank and the tank was recycled at Ball Pipe and Supply, Inc. Shawnee, Oklahoma.
  - (c) If tank system consisted of pressure piping, were samples taken at least every 40 feet? No pressure piping.
  - (d) Was excavated soil removed from the site? No
  - (e) If so, was a permit obtained for its removal? \_\_\_\_\_
7. Number and size of tanks filled with inert material. None.
8. Estimated date tanks were last used. unknown, tank was empty and no fuel vapors were in the tank.

9. Assess the site for potential contamination by:
  - (a) testing the soil or groundwater; or
  - (b) using an external leak detection method such as monitoring wells.
  - (c) Were field screening instruments used? YES
  - (d) If so, what was the type and model number? Organic Vapor Meter (OVM)  
Photoionization Detector (PID) Model # 580B

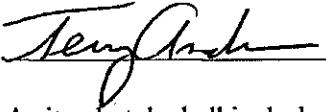
**NOTE:** If soil or ground water samples are used for a site assessment, the person taking the samples must be under the supervision of or be a certified UST Consultant.

10. Certified UST Consultant responsible for the sampling.

I certify the samples were taken at locations where contamination had most likely occurred.

Name Terry Andrews  
Address Caldwell Environmental Associates, Inc.  
PO Box 1608  
Norman, Oklahoma 73070  
Phone Number (405) 329-7167  
Certification Number 0344

Signature of Oklahoma Certified UST Consultant:

 Date 11/10/98

11. A site sketch shall include:

- (a) North arrow
- (b) Tank pit location
- (c) Proximity of tank pit to roads, buildings, or other landmarks measured in feet
- (d) Piping Layout and pump island location
- (e) Soil sample locations identifying the sample identification

12. Site Assessment prepared by:

Name Terry Andrews  
Address Caldwell Environmental Associates, Inc.  
PO Box 1608  
Norman, Oklahoma 73070  
Phone Number (405) 329-7167

Signature of Preparer:

 Date 11/10/98

Attachments: See Next Page

**ATTACHMENTS**

**Form 7530-1**

**Field Notes**

**Site Map**

**Laboratory Report**

**Certificate of Destruction**

**Form 7530-1**

## Registration for Underground Storage Tanks

## STATE USE ONLY

Oklahoma Corporation Commission  
Underground Storage Tank Program  
P.O. Box 52000-2000, Rm 250  
Oklahoma City, OK 73152-2000

ID NUMBER: 5113994

DATE RECEIVED: NOV 12 1998

- A. Date entered into computer: \_\_\_\_\_  
 B. Data entry clerk initials: \_\_\_\_\_  
 C. Owner was contacted to clarify responses  
 Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Date of Ownership Transfer: \_\_\_\_\_

Number of tanks at facility: \_\_\_\_\_

## INSTRUCTIONS

Please type or print in ink. This form must be completed for each location containing underground storage tanks. If more than four (4) tanks are owned at this location, photocopy the following sheets, and staple continuation sheets to the form.

## GENERAL INFORMATION

Notification is required by Federal and State Law for all underground tanks that have been used to store regulated substances since January 1, 1974, that are in the ground as of May 8, 1985, or that are brought into use after May 8, 1986.

## PENALTIES

Any owner who knowingly fails to notify or submits false information shall be subject to a civil penalty not to exceed \$10,000 for each tank for which notification is not given or for which false information is submitted.

## I. OWNERSHIP OF TANK (S)

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

Oklahoma Military Department3517 Military Circle

Street Address

Oklahoma City, OK73111-4398

City &amp; State

Zip Code

(405) 425-8333

(Area Code) Phone Number

## II. LOCATION OF TANK (S)

Facility Name or Company Site Identifier, as applicable

National Guard Armory101 South Creek StreetStreet Address (P.O. Box not acceptable)Haskell, OK

City &amp; State

Zip Code

If known, give the geographic location of tanks by degrees, minutes, and seconds. (Example: Lat. 42, 36, 12 N Long 85, 24, 17W)

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

III. TYPE OF OWNER		IV. INDIAN LANDS		
<input type="checkbox"/> Federal Government	<input type="checkbox"/> Commercial	Tanks are located on land within an Indian Reservation or on other trust lands.		
<input checked="" type="checkbox"/> State Government	<input type="checkbox"/> Farm			
<input type="checkbox"/> Local Government	<input type="checkbox"/> Other	Tribe or Nation _____		
V. CONTACT PERSON IN CHARGE OF TANKS				
Name	Job Title	Address	Phone Number (Include Area Code)	
<u>Capt. Terrance Smith, Environmental Specialist, 3517 Military Circle, OKla. City, OK 73111-4398</u> (405)425-8333				
VI. FINANCIAL RESPONSIBILITY				
I have met the financial responsibility requirements in accordance with 40 CFR Subpart H. (Financial Responsibility must be met and acknowledged.) <input type="checkbox"/>				
VII. DESCRIPTION OF UNDERGROUND STORAGE TANKS (COMPLETE FOR EACH TANK AT THIS LOCATION.)				
Tank Identification Number	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
1. Status of Tank (mark only one)				
Currently In Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporarily Out of Use (Remember to fill out section VIII)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permanently Out of Use (Remember to fill out section VIII)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Date of Installation (mo./year)	Unknown			
3. Estimated Total Capacity (gallons)	1,000			
4. Material of Construction (Mark all that apply)				
Coated or Bare Steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cathodically Protected Steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Composite (Steel with Fiberglass)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass Reinforced Plastic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lined Interior	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Double Walled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Polyethylene Tank Jacket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Excavation Liner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unknown	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other, Please specify	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>

Tank Identification Number	Tank No. 1	Tank No. 2	Tank No. 3	Tank No. 4
5. Piping (Material) (Mark all that apply)	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fiberglass Reinforced Plastic <input type="checkbox"/> Copper <input type="checkbox"/> Cathodically Protected <input type="checkbox"/> Double Walled <input type="checkbox"/> Secondary Containment <input type="checkbox"/> Unknown <input type="checkbox"/> Other, Please specify			
6. Piping (Mark all that apply)	<input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Suction: no valve at tank <input type="checkbox"/> Suction: valve at tank			
7. Substances Currently or Last Stored in Greatest Quantity.	<input checked="" type="checkbox"/> Gasoline <input type="checkbox"/> Diesel <input type="checkbox"/> Gasohol <input type="checkbox"/> Kerosene <input type="checkbox"/> Heating Oil <input type="checkbox"/> Used Oil <input type="checkbox"/> Other, Please specify			
Hazardous Substance CAS Number or CERCLA Name				
<b>VIII. TANKS OUT OF USE, OR CHANGE IN SERVICE</b>				
1. Closing of Tank A. Estimated date last used	<u>Unknown</u>			
B. Estimate date tank closed or removed. (mo./date/year)	<u>10/22/98</u>			
C. Tank was removed from ground. D. Tank was closed in ground. E. Tank filled with inert material. Describe type of material used. F. Change in service.	<input checked="" type="checkbox"/>			
2. Site Assessment Completed	<u>Yes</u>			
Evidence of a leak detected	<u>No</u>			

**IX. CERTIFICATION OF COMPLIANCE**  
**(COMPLETE FOR ALL NEW AND UPGRADED TANKS AT THIS LOCATION)**

OATH: I certify the information concerning installation that is provided in Section IX is true to the best of my belief and knowledge.

Installer Name: \_\_\_\_\_ License #: \_\_\_\_\_

Position: \_\_\_\_\_ Company: \_\_\_\_\_

Signature of Installer & Date: \_\_\_\_\_

Tank Identification Number	Tank No. _____	Tank No. _____	Tank No. _____	Tank No. _____				
1. Release Detection (Mark all that apply)	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
A. Manual tank gauging	<input type="checkbox"/>							
B. Tightness testing	<input type="checkbox"/>							
C. Inventory controls	<input type="checkbox"/>							
D. Automatic tank gauging	<input type="checkbox"/>							
E. Vapor monitoring	<input type="checkbox"/>							
F. Groundwater monitoring	<input type="checkbox"/>							
G. Interstitial monitoring double walled tank/piping	<input type="checkbox"/>							
H. Interstitial monitoring or Secondary containment	<input type="checkbox"/>							
I. Automatic line leak detectors	<input type="checkbox"/>							
J. Other method allowed by Implementing Agency	<input type="checkbox"/>							
2. Spill and Overfill Protection								
A. Overfill device installed.	<input type="checkbox"/>							
B. Spill device installed.	<input type="checkbox"/>							

**X. CERTIFICATION (Read and sign after completing all sections)**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. (Original signature goes to the Oklahoma Corporation Commission.)

Cathodic Protection Installer Signature: \_\_\_\_\_ NACE # \_\_\_\_\_

Name of owner or owner's authorized representative:

Print: Terry Andrews, Title: Senior Hydrogeologist, Caldwell Env. Assoc.

Signature: Terry Andrews Date: 11/10/98

**Field Notes**

PROJECT: Omo Haskell

SHEET: 1 OF 1

SUBJECT: Tank full

BY: JG DATE:

Caldwell Environmental Assoc., Inc.

P.O. Box 1608

Norman, OK 73070

(405) 329-7167

Fax (405) 329-7277



- 07:00 Left office.. Two trucks with enclosed trailer and flatbed trailer.  
Kirk, Mark and me
- 10:00 Arrived at site. Checked for utilities. No markings  
around building. Located gas line on west side of building.  
Electric appears to be from NW corner and south side -  
overhead lines. Building is very overgrown and has junk  
everywhere.
- 10:15 Found Vent pipe in back of building (middle of south side)  
Moved junk. Found filler pipes and dispenser island. Checked tank  
- dry.
- 10:30 Calibrated ovm using 100 ppm isobutyl line
- 10:30 - 11:00 Patted tank - no evidence of leak + tank condition  
is good with no holes.
- 11:10 Collected native soil sample #1 below tank at a depth of 11  
feet below ground. Screened soil with ovm - 0 ppm
- 11:20 Collected native soil sample #2 from south wall at  
7 feet below ground. Ground slope is to the  
South (very slight). Screened soil with ovm -  
0 ppm.
- 12:00 - 13:30 Backfilled excavation  
and cut hole in tank.
- 14:00 Left site and took tank to Ball Pipe + Steel, Shawnee.

## **Site Map**

PROJECT: OMD Haskell

SHEET: 1 OF 1

SUBJECT: Site Map

BY: TA DATE: 10/22/98

Caldwell Environmental Assoc., Inc.

P.O. Box 1608

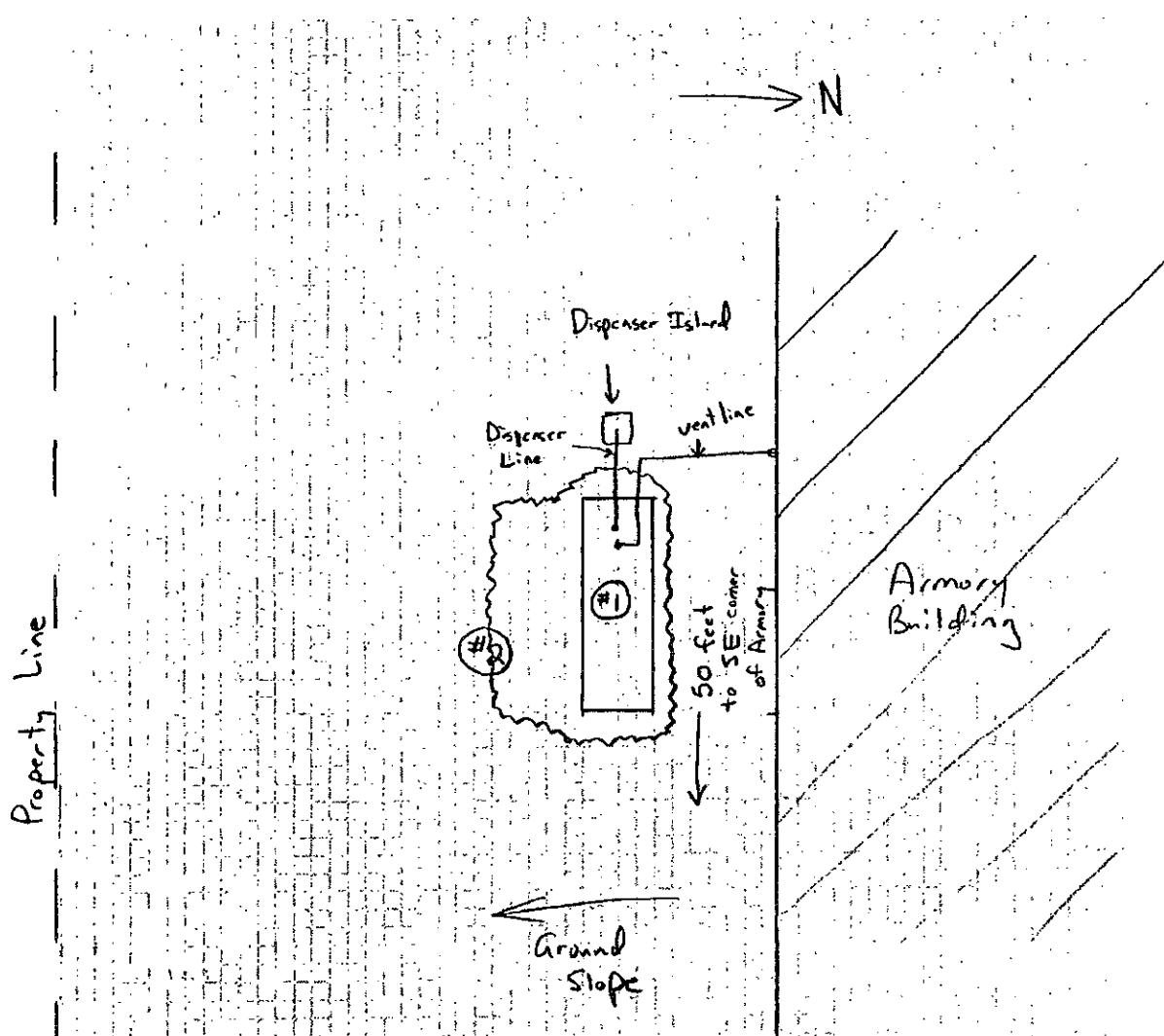
Norman, OK 73070

(405) 329-7167

Fax (405) 329-7277



Property Line



Native Soil Samples

#1 Collected approx. 11 feet BAS, below middle of tank.

#2 Collected approx. 7 feet BAS, 5' feet south of UST.

## **Laboratory Report**

**ISOTEK, L.L.C.**  
**LABORATORY SERVICES**  
4901 West Reno, Suite 175, Oklahoma City, OK 73127-6320  
(405) 948-8880 FAX: (405) 948-6015

O.D.E.Q. Certification No. 9522

OCTOBER 23, 1998

Laboratory Report No. 9803962

**CALDWELL ENVIRONMENTAL**  
**2270 INDUSTRIAL BLVD.**  
**NORMAN, OKLAHOMA 73069**

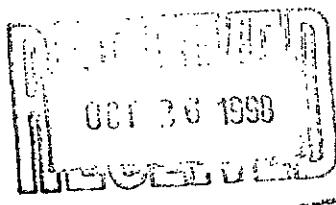
PROJECT NAME:	OMD HASKELL
PROJECT NO.:	NONE INDICATED
SAMPLE I.D.:	SAMPLE #1
SAMPLE MATRIX:	SOIL
DATE SAMPLED:	OCTOBER 22, 1998
DATE RECEIVED:	OCTOBER 23, 1998
DATE ANALYZED:	OCTOBER 23, 1998
TIME ANALYZED:	13:27 BY RANDY KITSMILLER

METHOD	REF	MDL	PARAMETER	SAMPLE RESULTS
8020	EPA	5 ug/kg	BENZENE	ND
8020	EPA	5 ug/kg	TOLUENE	ND
8020	EPA	5 ug/kg	ETHYLEBENZENE	ND
8020	EPA	5 ug/kg	TOTAL XYLENES	ND
8020	EPA	-	SURROGATE (Trifluorotoluene) RECOVERY %	98.2 %
8015 M	ODEQ	1 mg/kg	Volatile TPH (Gasoline Range Organics)	ND

mg/kg      Milligrams per Kilogram, equivalent to parts per million.  
ug/kg      Micrograms per Kilogram, equivalent to parts per billion.  
ND          None Detected above stated detection limits.

Unless ISOTEK receives prior notification, all sample material not consumed in analysis will be retained for a period of 30 days before disposal.

Randy Kitzmiller  
Certified By:



**ISOTEK, L.L.C.**  
**LABORATORY SERVICES**  
4901 West Reno, Suite 175, Oklahoma City, OK 73127-6320  
(405) 948-8880 FAX: (405) 948-6015

O.D.E.Q. Certification No. 9522

OCTOBER 23, 1998

Laboratory Report No. 9803963

**CALDWELL ENVIRONMENTAL**  
**2270 INDUSTRIAL BLVD.**  
**NORMAN, OKLAHOMA 73069**

PROJECT NAME: OMD HASKELL  
PROJECT NO.: NONE INDICATED  
SAMPLE I.D.: SAMPLE #2  
SAMPLE MATRIX: SOIL  
DATE SAMPLED: OCTOBER 22, 1998  
DATE RECEIVED: OCTOBER 23, 1998  
DATE ANALYZED: OCTOBER 23, 1998  
TIME ANALYZED: 14:04 BY RANDY KITSMILLER

METHOD	REF	MDL	PARAMETER	SAMPLE RESULTS
8020	EPA	5 ug/kg	BENZENE	ND
8020	EPA	5 ug/kg	TOLUENE	ND
8020	EPA	5 ug/kg	ETHYLEBENZENE	ND
8020	EPA	5 ug/kg	TOTAL XYLENES	ND
8020	EPA	-	SURROGATE (Trifluorotoluene) RECOVERY %	98.2 %
8015 M	ODEQ	1 mg/kg	Volatile TPH (Gasoline Range Organics)	ND

mg/kg      Milligrams per Kilogram, equivalent to parts per million.  
ug/kg      Micrograms per Kilogram, equivalent to parts per billion.  
ND          None Detected above stated detection limits.

Unless ISOTEK receives prior notification, all sample material not consumed in analysis will be retained for a period of 30 days before disposal.

*Randy Kitzmiller*  
Certified By:

ISOTEK, L.L.C.

**CHAIN OF CUSTODY**

4901 West Reno, Suite 175  
Oklahoma City, OK 73127-6320  
BUS: (405) 948-8880  
FAX: (405) 948-6015

**Certificate of Destruction**

Date: 11-10-98  
Completed By: TDA

## CERTIFICATE OF DESTRUCTION

Scraping/Disposal Company:      Site of Destruction:

Ball Pipe and Supply, Inc.  
P.O. Box 1149  
Shawnee, Oklahoma      Former National Guard Armory  
101 South Creek Street  
Haskell, Oklahoma.

Tank Removal Contractor:

Caldwell Environmental Associates, Inc.  
P.O. Box 1608  
Norman, Oklahoma 73070

Tank Identification:

Tank #: unregistered  
Size: one 1,000 gallon steel tank.  
Location: Company: Oklahoma Military Department  
Address: 3517 Military Circle  
City/State: Oklahoma City, Oklahoma.  
Destruction Date: 10-22-98.

I certify that the above described tank has been rendered unusable for the storage of any fluids, and all removed fluids, sludge and the tanks were disposed of in accordance with all applicable local, state, and federal regulations.

Signature:

Terry Andrews

By

Senior Hydrogeologist.

Title

Subscribed & Sworn to before me this 10<sup>th</sup> day of November  
in the year 1998.

Jerry R. Jennings  
Notary Public

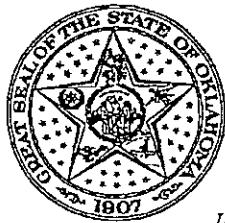
My Commission Expires:

My Commission Expires July 17, 2002

BOB ANTHONY  
Commissioner

ED APPLE  
Commissioner

DENISE A. BODE  
Commissioner



OKLAHOMA CORPORATION COMMISSION  
PETROLEUM STORAGE TANK DIVISION  
(405) 521-4683 FAX: (405) 521-4945

JIM THORPE BLDG, ROOM 238 • P.O. BOX 52000-2000 • OKLAHOMA CITY, OKLAHOMA 73152-2000

December 31, 1998

Oklahoma Military Department Contact: Captain Terrence Smith  
Directorate of Engineering, Environmental Office  
3517 Military Circle  
Oklahoma City, Oklahoma 73111-4398

Reference: Petroleum Storage Tank Amended Notification Form for Permanent Tank Closure  
of 1-1,000 gallon underground storage tank(s) (UST(s)) located at 101 S Creek  
St., Haskell, Oklahoma. Facility #5113994

Dear Sir:

Thank you for providing your amended notification form and supporting information documenting the permanent closure of your UST(s) at the above referenced facility to the Oklahoma Corporation Commission (OCC).

Based on the information you have provided regarding current site conditions, the OCC believes that there is no contamination of concern at this site at this time. The subject tank(s) is/are hereby considered permanently closed in accordance with OCC UST regulations. Should future environmental problems occur, which the OCC determines are related to this site, additional investigation and corrective action may be required in accordance with State Law.

If you have any questions regarding this matter, please contact me at (405) 521-6397 (phone) or (405) 636-3501 (pager).

Sincerely yours,

Handwritten signature of Bryan Morris.

Bryan Morris  
Environmental Compliance Analyst

cc: Facility file #5113994  
Rick Heck  
Terry Andrews

C. Limited Environmental Baseline Assessment. Oklahoma Army National Guard Highway 64 North, Haskell, OK. Oklahoma Military Department Environmental Office.

*Draft*

## LIMITED ENVIRONMENTAL BASELINE ASSESSMENT



**OKLAHOMA ARMY NATIONAL GUARD  
HIGHWAY 64 NORTH  
HASKELL, OK**

**27 JULY 2010**

**PERFORMED BY  
OKLAHOMA MILITARY DEPARTMENT ENVIRONMENTAL OFFICE  
(OKDE-ENV)  
FOR  
THE OKLAHOMA MILITARY DEPARTMENT**

# **LIMITED ENVIRONMENTAL BASELINE ASSESSMENT**

*for*

**HASKELL ARMORY  
HIGHWAY 64 NORTH  
HASKELL, OKLAHOMA**

**23 JULY 2010**

**CONDUCTED BY  
THE OKLAHOMA MILITARY DEPARTMENT ENVIRONMENTAL OFFICE (NGOK-  
ENG-ENV)**

**CONDUCTED FOR  
THE OKLAHOMA MILITARY DEPARTMENT**

---

Matthew C. Simpson  
Environmental Programs Specialist

## EXECUTIVE SUMMARY

A representative of the Oklahoma Military Department Environmental Office (NGOK-ENG-ENV) conducted a Limited Environmental Baseline Assessment for the Oklahoma Army National Guard (OKARNG) Haskell Armory. The evaluation was conducted on behalf of the Oklahoma Military Department (OMD) and the OKARNG. The OKARNG is a component of the United States Army and fulfills the military mission of national security. The purpose of this assessment is to identify and record recognized environmental conditions at the subject property.

The following issues were noted (these are minor and only of minor concern):

- Damaged flooring tiles with black mastic (possibly containing asbestos) in the Class Room.
- Water damage and mold throughout the facility.
- Fluorescent light bulbs throughout the facility.
- One (1) lead-acid battery in the Mechanical Room.
- Two (2) grease traps; one in the Scullery and one in the Kitchen.

The IFR presents the potential for lead contamination of items in the IFR (e.g. acoustic tiles on the walls) and the potential for lead contamination outside the IFR through the floor drain, vent, and door way (Appendix C, Photos #9 & #10).

Recognized environmental conditions associated with the property and identified during this Limited Environmental Baseline Assessment revealed the following minor issues which have limited environmental risk:

- The lead-acid battery and fluorescent light bulbs at the facility should be removed and/or properly disposed of by the unit to last utilize the facility (if these items belong to, or belonged to, the last OKARNG unit to occupy the facility).
- The grease traps should be inspected and cleaned if necessary.
- The facility should be surveyed for asbestos containing materials (ACM).
- The Indoor Firing Range (IFR), the Drill Hall, and the soil immediately outside of the IFR vent should be tested for potential Lead (Pb) contamination.
- Storm water infiltration should be prevented to avoid future mold growth.

Based on the findings of this evaluation, it is unlikely that activities or events during the Oklahoma Army National Guard's use of the property have resulted in significant environmental impact. Based on an evaluation of environmental conditions documented in this report, there is a very low probability that any of the conditions would have significant adverse impact on the subject property or restrict its use.

- The IFR presents the potential for lead contamination of items in the IFR (e.g. acoustic tiles on the walls) and the potential for lead contamination outside the IFR through the floor drain, vent, and door way (Appendix C, Photos #9 & #10).

Since the City of Haskell had access to the facility time of this assessment, it is assumed that the black plastic pipe on the Drill Floor is the property of the City of Haskell (Appendix C, Photo #6).

## CONCLUSIONS

A representative of the Oklahoma Military Department Environmental Office (NGOK-ENG-ENV) conducted a Limited Environmental Baseline Assessment at the Haskell Armory. The evaluation was conducted on behalf of the Oklahoma Military Department (OMD) and the Oklahoma Army National Guard (OKARNG) to identify and record recognized environmental conditions at the subject property.

Recognized environmental conditions associated with the property and identified during this Limited Environmental Baseline Assessment revealed the following minor issues which have limited environmental risk:

- The lead-acid battery and fluorescent light bulbs at the facility present a potential for improper disposal and could result in undesirable consequences if released into the environment. They may also require special consideration for disposal.
- The grease traps may require cleaning of accumulated oils, greases, fats, etc...
- Based on the age of the facility, flooring tiles, pipe coatings, and roofing materials present a potential for presence of asbestos containing materials (ACM).
- A potential for indoor and outdoor Lead (Pb) contamination from previous Indoor Firing Range (IFR) use.
- A potential for mold growth in the facility, possibly harmful.

Based on findings of this evaluation, it is unlikely that activities or events during the Oklahoma Army National Guard's use of the property have resulted in a significant environmental impact. Based on an evaluation of environmental conditions documented in this report, there is a very low probability that any of the conditions would have a significant adverse impact on the subject property or restrict its use.

## RECOMMENDATIONS

This assessment of the Haskell Armory has rendered the following recommendations:

- The lead-acid battery and fluorescent light bulbs at the facility should be removed and/or properly disposed of by the unit to last utilize the facility (if these items belong to, or belonged to, the last OKARNG unit to occupy the facility).
- The grease traps should be inspected and cleaned if necessary.
- The facility should be surveyed for asbestos containing materials (ACM).
- The Indoor Firing Range (IFR), the Drill Hall, and the soil immediately outside of the IFR vent should be tested for potential Lead (Pb) contamination.
- Storm water infiltration should be prevented to avoid future mold growth.

## PURPOSE

It is in the best interest of the OMD and the OKARNG to evaluate the current condition of the property, document any recognized environmental conditions, and prepare a record of the assessment.

This Limited Environmental Baseline Assessment was conducted to gather contemporary environmental data and preserve it in a manner consistent with customary professional practice. It is not intended to fulfill requirements of any recognized guidance document. No recommendations may be reached based solely upon the content of this Limited Environmental Baseline Assessment.

## SCOPE and LIMITATIONS

This assessment is exclusively limited to investigation and evaluation of the subject property based on visual observation of the property and appurtenances. Recognized environmental conditions identified on the subject property or on those abutting properties were documented in written form and photographed (whenever possible) for record (included in Appendix C, Reconnaissance Photographs).

The assessment did not include any of the following commonly used elements:

- Knowledgeable person interviews.
- Media sample collection and laboratory analyses.

Those areas not readily accessible to the assessor (building roofs, drainage devices, and etcetera) were not evaluated unless otherwise stated. No conclusions may be reached concerning their condition.

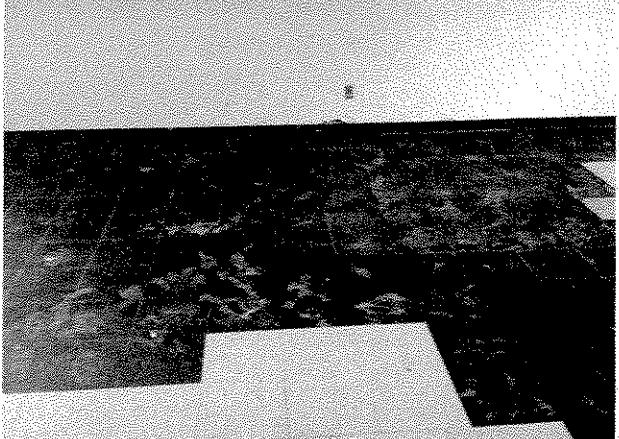
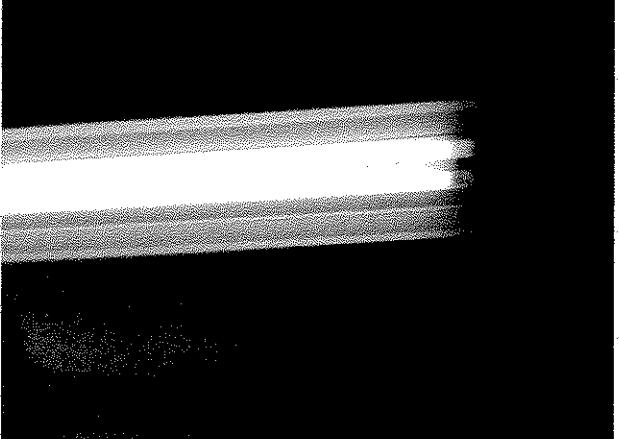
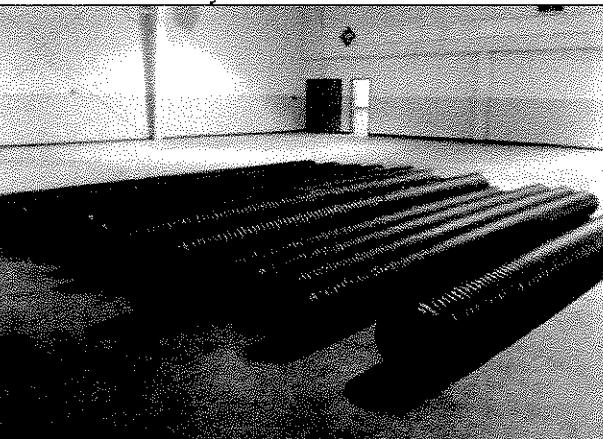
## METHODOLOGY

The investigation process was conducted as follows:

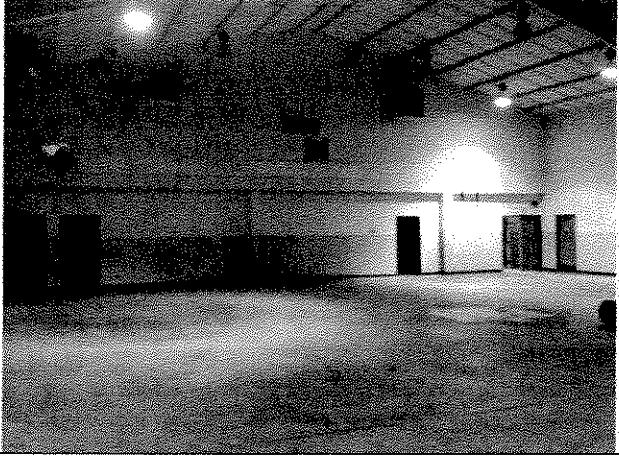
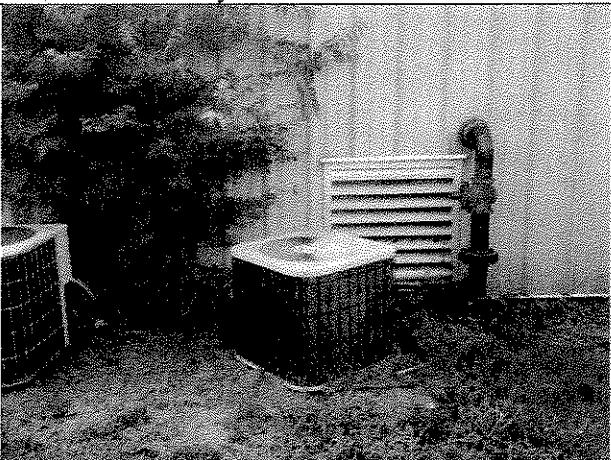
- A pedestrian survey of the property perimeter (as judged feasible).
- A pedestrian survey of the property. Using a perimeter fence as reference, the assessor traversed the property repeatedly on 20 (twenty) foot intervals by walking in a straight line parallel to the reference fencing (as allowed by obstacles).
- Visual examination of the exterior and interior of all buildings, sheds, (as accessible), and storage areas.

Recognized environmental conditions identified at the subject property were photographed for record (whenever possible).

## RECONNAISSANCE PHOTOGRAPHS

	
<p>Photograph # 1 Damaged flooring tile and black mastic 13 July 2010: View to the E</p>	<p>Photograph # 2 Water infiltration next to electrical breakers and mold 13 July 2010: View to the N</p>
	
<p>Photograph # 3 Fluorescent light bulbs 13 July 2010: View to the W</p>	<p>Photograph # 4 Lead-acid battery 13 July 2010: View to the N</p>
	
<p>Photograph # 5 Stormwater on the Drill Floor 13 July 2010: View to the S</p>	<p>Photograph # 6 Corrugate plastic pipe 13 July 2010: View to the SW</p>

## RECONNAISSANCE PHOTOGRAPHS

	
<p>Photograph # 13 Drill Floor 13 July 2010: View to the E</p>	<p>Photograph # 14 Mold on the exterior of the building 13 July 2010: View to the S</p>
	
<p>Photograph # 15 Septic system 13 July 2010: View to the E</p>	<p>Photograph # 16 Air conditioning units 13 July 2010: View to the S</p>
	
<p>Photograph # 17 POL Storage Building 13 July 2010: View to the SE</p>	<p>Photograph # 18 Vehicle Compound 13 July 2010: View to the SE</p>

## **APPENDIX D**

### ***SOIL REMEDIATION DOCUMENTATION***

06/13/2005 11:37 405872140P

CALDWELL ENV

PAGE 03



CH \_\_\_\_\_

D. COMPOSITION (Must add up to at least 100%. Include inert materials and/or debris if applicable. Actual percent or range is acceptable.)	
Sail and Sand	98 %
PPE and Debris	1 %
Lead	1 %
	%
	%
	%
	%

Check if MSDS attached.

E. Constituents - Attach any available analysis. Enter values or ranges where known. For TCLP values, BRL signifies below regulatory level. None, unknown, and present are also acceptable answers.

Are these values based on  Knowledge or  Testing?

#### INORGANIC

RQRA REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL mg/l	OTHER METALS	TOTAL	NON-METALS	WT%
D004 ARSENIC	5.0			ALUMINUM		SULFUR	
D005 BARIUM	100.0			ANTIMONY		BROMINE	
D006 CADMIUM	1.0			BERYLLIUM		CHLORINE	
D007 CHROMIUM	5.0			CALCIUM		FLUORINE	
D008 CHROMIUM CR+6				COPPER		IODINE	
D009 LEAD	5.0	200		MAGNESIUM			
D009 MERCURY	0.2			MOLYBDENUM			
D010 SELENIUM	1.0			NICKEL		AMMONIA	PPM
D011 SILVER	5.0			POTASSIUM		REACTIVE SULFIDE	
				SILICON		CYANIDE-TOTAL	
				SODIUM		CYANIDE-AMENABLE	
				THALLIUM		CYANIDE REACTIVE	
				TIN			
				VANADIUM			
				ZINC			

#### ORGANIC

VOLATILE COMPOUNDS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL mg/l	SEMI-VOLATILE COMPOUNDS	REGULATORY LEVEL (mg/l)	TCLP	TOTAL
D018 BENZENE	0.5			D023 o-CRESOL	200.0		
D019 CARBON TETRACHLORIDE	0.5			D024 m-CRESOL	200.0		
D021 CHLOROBENZENE	100.0			D026 p-CRESOL	200.0		
D022 CHLOROFORM	6.0			D026 CRESOL (TOTAL)	200.0		
D028 1,2-DICHLOROETHANE	0.5			D027 1,4-DICHLOROBENZENE	7.5		
D029 1,1-DICHLOROETHYLENE	0.7			D030 2,4-DINITROTOLUENE	0.13		
D035 METHYLETHYL KETONE	200.0			D032 HEXACHLOROBENZENE	0.13		
D036 TETRACHLOROETHYLENE	0.7			D033 HEXACHLOROBUTADIENE	0.5		
D040 TRICHLOROETHYLENE	0.5			D034 HEXACHLOROETHANE	3.0		
D043 VINYL CHLORIDE	0.2			D036 NITROBENZENE	2.0		
				D037 PENTACHLOROPHENOL	100.0		
				D038 PYRIDINE	5.0		
				D041 2,4,5-TRICHLOROPHENOL	400.0		
				D042 2,4,6-TRICHLOROPHENOL	2.0		

#### PESTICIDES AND HERBICIDES

PESTICIDES AND HERBICIDES	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL mg/l
D012 ENDIRIN	0.02		
D013 LINDANE	0.4		
D014 METHOXCHLOR	10.0		
D015 TOXAPHENE	0.5		
D016 2,4-D	10.0		
D017 2,4,5-TP (SILVEX)	1.0		
D020 CHLORDANE	0.08		
D031 HEPTACHLOR (AND ITS EPOXIDE)	0.005		

#### OTHER

PHENOL		
TOTAL PETROLEUM HYDROCARBONS (Boils only)		PPM
PCBS		PPM
<input type="checkbox"/> NONE		
<input type="checkbox"/> < 50PPM	HOC'S	
<input type="checkbox"/> ≥ 50PPM	<input type="checkbox"/> NONE	
IF PCB'S ARE PRESENT		
< 50 PPML IS THE WASTE	<input type="checkbox"/> < 1000 PPM	
REGULATED BY TSCA		
40 CFR 761.7	<input type="checkbox"/> ≥ 1000 PPM	
<input type="checkbox"/> YES <input type="checkbox"/> NO		

#### OTHER HAZARDS

YES	YES	YES	YES	YES
WATER REACTIVE <input type="checkbox"/>	PESTICIDE <input type="checkbox"/>	SHOCK SENSITIVE <input type="checkbox"/>	DEA REGULATED SUBSTANCE <input type="checkbox"/>	
RADIOACTIVE <input type="checkbox"/>	HERBICIDE <input type="checkbox"/>	THERMALLY SENSITIVE <input type="checkbox"/>	OXIDIZER <input type="checkbox"/>	
DIOXIN <input type="checkbox"/>	EXPLOSIVE <input type="checkbox"/>	INFECTIOUS, PATHOGENIC, <input type="checkbox"/>	REDUCING AGENT <input type="checkbox"/>	
DGHA REGULATED CARCINOGENS <input type="checkbox"/>	SPONTANEOUSLY IGNITES WITH AIR <input type="checkbox"/>	OR ETOLOGICAL AGENT <input type="checkbox"/>	NONE OF THE ABOVE <input type="checkbox"/>	

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?  
 NO  (If yes, explain)

05/13/2005 11:37 485872140P

CALDWELL ENV

PAGE 04



CH

## F. REGULATORY STATUS

Y N

 USEPA HAZARDOUS WASTE? (If Yes, list codes.) D009 DO ANY GENERATOR STATE WASTE CODES APPLY? If YES, list state codes.

LIST ANY FEDERAL OR STATE WASTE CODES WHICH MAY VARY FROM SHIPMENT TO SHIPMENT:

WILL THE DECISION TO VARY THESE WASTE CODES BE BASED ON  KNOWLEDGE OR  TESTING (check one).  
IF KNOWLEDGE, DESCRIBE BASIS OF KNOWLEDGE:

- IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 267?  
THIS WASTE IS A:  WASTEWATER  NON WASTEWATER PER USEPA DEFINITION IN 40 CFR 268.27
- IF ANY WASTE CODES D001, D002, D003 (OTHER THAN REACTIVE CYANIDE OR REACTIVE SULFIDE), D004-D011, D012-D017 NON WASTEWATERS, OR OR D018-D043 APPLY, ARE THERE ANY UNDERLYING HAZARDOUS CONSTITUENTS (UHC) PRESENT ABOVE UNIVERSAL TREATMENT STANDARDS (UTS)?
- DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?
- IS THIS WASTE SUBJECT TO CATEGORICAL PRETREATMENT DISCHARGE STANDARDS? IF YES, SPECIFY POINT SOURCE CATEGORY LISTED IN 40 CFR PART 401.
- IS THIS WASTE REGULATED UNDER THE BENZENE NESHAP RULES? (IS THIS WASTE FROM A CHEMICAL MANUFACTURING, COKE BY-PRODUCT RECOVERY, OR PETROLEUM REFINERY PROCESS?)
- DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS  $\geq$  500 PPM?
- DOES THIS WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE  $\geq$  3KPA (44 psia)?
- DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE GREATER THAN 77 Kpa (11.2 psia)?

## G. D.O.T. INFORMATION: List all shipping names that may be used. Attach additional page if necessary.

D.O.T SHIPPING NAME Hazardous Waste SolidsDOT HAZARD CLASS 9UN/NA# 143077PACKING GROUP (Code 1-4) IIHAZARD ZONE (Code 1-4) III

A B C D

WILL THIS SHIPPING NAME VARY?  Y  N IF YES, WILL ASSIGNMENT OF PROPER SHIPPING NAME BE BASED ON  KNOWLEDGE OR  TESTING? (check one)  
IF KNOWLEDGE, DESCRIBE BASIS OF KNOWLEDGE:

## TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY:  ONE TIME  WEEKLY  SEMI-MONTHLY  MONTHLY  QUARTERLY  OTHER BULK LIQUIDGALLONS/SHIPMENT GAL FROM TANKS: TANK SIZE GAL FROM DRUMS

VEHICLE TYPE:

 VAC TRUCK TANK TRUCK RAILROAD TANK CAR

CHECK COMPATIBLE STORAGE MATERIALS:

 STEEL  STAINLESS STEEL (316) RUBBER LINED  FIBERGLASS LINED OTHER BULK SOLID

TON/YD PER SHIPMENT

STORAGE CAPACITY TON/YD

VEHICLE TYPE:

 DUMP TRAILER GROLL OFF BOX INTERMODAL ROLL OFF BOX CUSCO/ACTOR OTHER CONTAINERIZED

4-5 CONTAINER/SHIPMENT

STORAGE CAPACITY CONTAINERS

CONTAINER TYPE:

 CUBIC YARD BOX PALLET TOTE TANK DRUMS SIZE:

CONTAINER MATERIAL:

 STEEL FIBER PLASTIC OTHER

## I. SAMPLE STATUS

REPRESENTATIVE SAMPLE HAS BEEN SUPPLIED.  YES  NO SAMPLED BY

DATE SAMPLED

## J. SPECIFIC DISPOSAL RESTRICTION OR REQUESTS:

SPECIAL WASTE HANDLING REQUIREMENTS:

OTHER COMMENTS OR REQUESTS:

## J. BIENNIAL/ANNUAL REPORTING INFORMATION.

SIC CODE

SOURCE CODE

FORM CODE

ORIGIN CODE

## GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge. I also certify that any samples submitted are representative of the actual waste. If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE

Oklahoma Military Department  
NAME (PRINT)DOD Environmental Program 13 JUN 05  
TITLE DATEFor DOD/DoD  
Oklahoma Military Dept.

Operations Mgr. 5-2-05

FOR CLEAN HARBORS USE ONLY

REPRESENTATIVE COMPLETING PROFILE

		Emergency Contact Telephone Number			
<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1 Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Oklahoma Military Department 3515 Military Circle, Oklahoma City, OK 73111		Site Facility Hwy 64 N Haskell, OK		A. State Manifest Document Number	3401389
4. Generator's Phone (405) 222-8259 ext. 114, Ct. Hwy				B. State Generator's ID	
5. Transporter 1 Company Name Colwell Environmental		6. US EPA ID Number	7. US EPA ID Number	C. State Transporter's ID	91702
8. Transporter 2 Company Name				D. Transporter's Phone	405-872-1400
9. Designated Facility Name and Site Address Clean Harbors - Lone Mtn. Facility 5 miles East, 1 mile North of Hwy 281/412 Mayeska, OK 73860		10. US EPA ID Number		E. State Transporter's ID	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) HM		12. Containers	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a.	X Hazardous Waste Solid, n.o.s. (Sand, Lwd) 9; NA3077; PGIII	No. Type	007 CW	09500 P	D008
b.					
c.	CR 1M FS 1M				
d.	OFFC				
3. Additional Descriptions for Materials Listed Above a. CH 98529		K. Handling Codes for Wastes Listed Above Order# DK982878			
15. Special Handling Instructions and Additional Information a. Material originally manifested on a Texas Utterm by mistake. Document is attached for signature verification only.					
In Case of Emergency Contact CFA					
16. GENERATOR'S CERTIFICATIONS: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimized the present and future threat to human health and the environment. Or, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name See attached to original signature on behalf of firm		Signature		Month Day Year	10/5/26/05
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Scott Dwyer		Signature		Month Day Year	10/5/26/05
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space		05-2269			
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Brandi Collier		Signature		Month Day Year	
ORIGINAL — RETURN TO GENERATOR					

AERIAL PHOTO OF THE HASKELL ARMORY



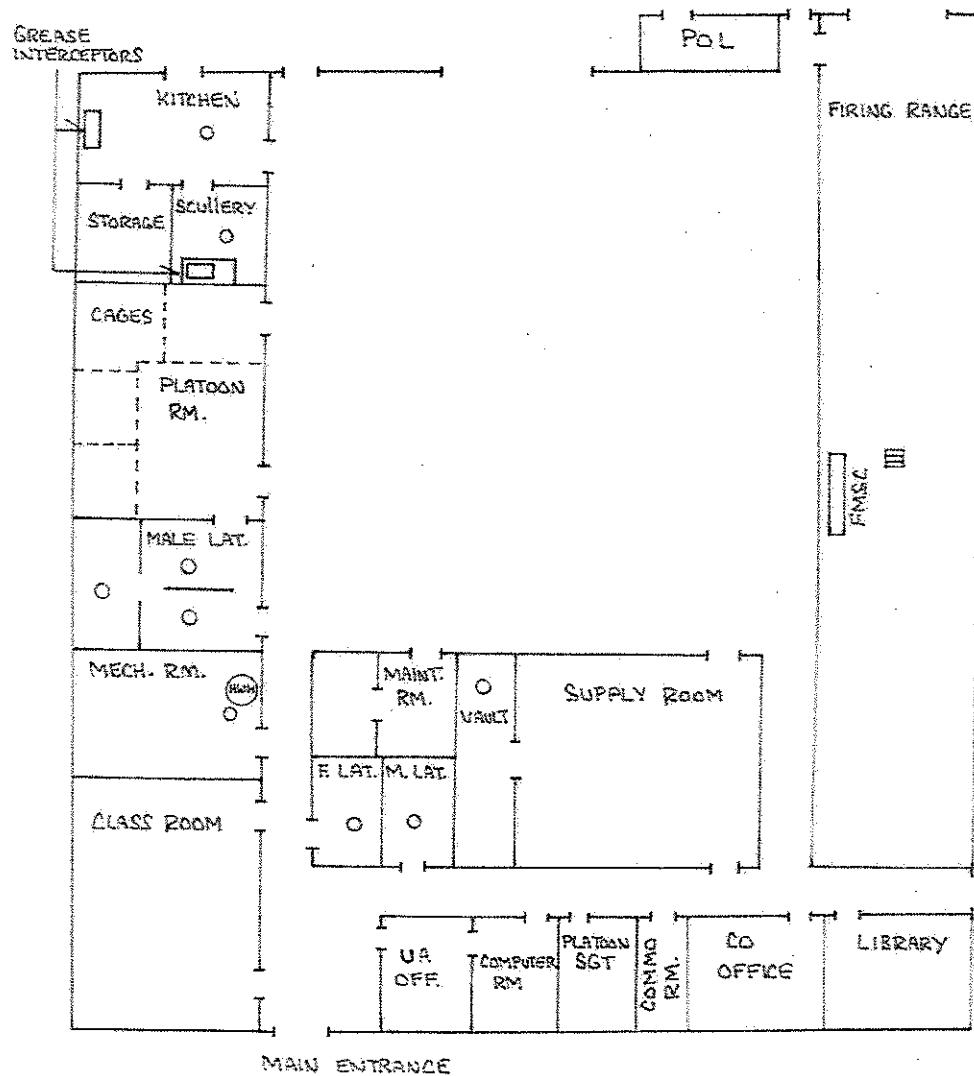
FLOOR PLAN, HASKELL ARMORY

HASKELL ARMORY

820 PARK STREET

BUILT: 1983

N ←



## **REFERENCES**

"DEQ GIS Data Viewer." Oklahoma Department of Environmental Quality, 2010, 23 July 2010  
<<http://maps.scigis.com/deq%5Fwq/>>.

D. Caldwell Environmental Work Plan for Remediation of Lead Contamination, Oklahoma Army National Guard, Haskell, OK.

## Emergency Contact Telephone Number

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>O.K.P.41017381601389</b>	Manifest Document No. <b>Site Facility: Hwy 64 N Haskell, OK</b>	2. Page 1 of <b>1</b>	Information in the shaded areas is not required by Federal law.
GENERATOR	3. Generator's Name and Mailing Address <b>Oklahoma Military Department 3515 Military Circle, Oklahoma City, OK 73111</b>	4. Generator's Phone (405) 229-5299 Att. Ct. Hale	A. State Manifest Document Number <b>3401389</b>		
	5. Transporter 1 Company Name <b>Caldwell Environmental</b>	6. US EPA ID Number <b>OKR 000003293</b>	B. State Generator's ID <b>91702</b>		
	7. Transporter 2 Company Name	8. US EPA ID Number	C. State Transporter's ID <b>91702</b>		
	9. Designated Facility Name and Site Address <b>Clean Harbors - Lone Mtn. Facility 5 miles East, 1 mile North of Hwy 281/412 Mayeska, OK 73860</b>	10. US EPA ID Number <b>10KDO05438376</b>	D. Transporter's Phone <b>405-872-1400</b>		
	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)  HM a. X Hazardous Waste Solid, h.o.s. (Sand, Lwd) 9; NA3077; PG III	12. Containers No. 007	13. Total Quantity CW 09.500 P	14. Unit Wt/Vol <b>D008</b>	15. Waste No.
	b.				
	c.	CR FS	IM IM		
	d.	OFFC			
	J. Additional Descriptions for Materials Listed Above <b>CH 98529 Order# DK982878 DP# 5114439</b>	K. Handling Codes for Wastes Listed Above			
	15. Special Handling Instructions and Additional Information <b>a. Material originally manifested on a Texas Utturn by mistake. Document is attached for signature verification only.</b>				
In Case of Emergency Contact CEA					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.					
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimized the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name <b>See attached for original signature on behalf of OMD</b>		Signature 	Month Day Year <b>05/26/05</b>		
17. Transporter 1 Acknowledgement of Receipt of Materials  Printed/Typed Name <b>Scott Darley</b>		Signature 	Month Day Year <b>05/26/05</b>		
18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name		Signature	Month Day Year		
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  Printed/Typed Name <b>Brandy Collier</b>		Signature 	Month Day Year <b>05-22-09</b>		



TEXAS COMMISSION ON  
ENVIRONMENTAL QUALITY  
P.O. Box 13087  
Austin, Texas 78711-3087



Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form approved. OMB No. 2050-0039.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <b>O.K.P.4.10.1.7.3.8.1.601389</b>	Manifest Document No. <b>1</b>	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address <i>Oklahoma P.T. Corp. Department 3575 Military Circle Oklahoma City, OK 73111</i>		<i>Site Facility Haskell, OK Hwy 64, North of Town</i>		A. State Manifest Document Number <b>3401389</b>	
4. Generator's Phone (405) 228-5099		(918) 482-3210		B. State Generator's ID <b>3401389</b>	
5. Transporter 1 Company Name <i>Cathwell Environmental</i>		6. US EPA ID Number <b>O.K.R.0.0.0.0.0.3.2.9.3</b>		C. State Transporter's ID <b>91702</b>	
7. Transporter 2 Company Name		8. US EPA ID Number .....		D. Transporter's Phone (405) 872-1400	
9. Designated Facility Name and Site Address <i>Clay Harbors Environmental (Lan Phm.) 5 miles East, 1 mile North of Hwy 281/Hwy 412 Rt. 2 Box 170 Wynona, OK 73860</i>		10. US EPA ID Number <b>O.K.D.0.6.5.4.3.8.3.7.6</b>		E. State Transporter's ID .....	
11. US DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group)  <i>X a. Hazardous Waste, Solid, n.o.s (Sand of lead) 9; NA3077; PG III</i>		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
		<b>007</b>	<b>cw</b>	<b>095.00</b>	<b>P</b>
		.....	.....	.....	.....
		.....	.....	.....	.....
		.....	.....	.....	.....
J. Additional Descriptions for Materials Listed Above  <i>2.CH98529 DP# 5114439</i>		K. Handling Codes for Wastes Listed Above  <i>Order # DK982978</i>			
15. Special Handling Instructions and Additional Information  <i>In Case of Emergency Contact CEA at (405) 872-1400</i>					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name <i>Ricky L. SEALS</i>		Signature <i>Ricky L. Seals</i>		Month Day Year <i>10.512.6105</i>	Date
17. Transporter 1 Acknowledgement of Receipt of Materials  TRANSPORTER Printed/Typed Name <i>Scott Dakey</i>					
Printed/Typed Name <i>Scott Dakey</i>		Signature <i>Scott Dakey</i>		Month Day Year <i>10.512.6105</i>	Date
18. Transporter 2 Acknowledgement of Receipt of Materials  TRANSPORTER Printed/Typed Name					
Printed/Typed Name		Signature		Month Day Year	.....
19. Discrepancy Indication Space  <i>Material transferred to New Manifest as not being disposed of in Texas. This document is for original signature copy only.</i>					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  FACILITY Printed/Typed Name <i>WA</i>					
Printed/Typed Name <i>WA</i>		Signature <i>WA</i>		Month Day Year <i>10.512.6105</i>	Date



# Red River

## Environmental Laboratory and Consulting Company

Analytical Laboratories · Environmental Consulting · Permit Application and Compliance

ODEQ ID# 9953

To: RICHARD BROOKS  
STATE OF OKLAHOMA - OKARNG  
3515 MILITARY CIRCLE  
OKLAHOMA CITY OK 73111

Project #: Project Name: OMD HASKELL LEAD REMEDIATION  
Sample Group:  
- CERTIFICATE OF ANALYSIS -

PO Number:  
Date Received: 05/27/05  
Report Date: 06/08/05

Lab Number	Sample Identification	Matrix	Date Sampled	Parameter	Results	Units	Q	MDL	PQL	Method
200503670	SOIL CONFIRMATION COLLECTED FROM SOIL BENEATH SAND	SOIL	05/26/05	LEAD	10.8	mg/kg		2.6	7.9	EPA_6010B
200503671	SOIL BACKGROUND COLLECTED 50' SOUTH	SOIL	05/26/05	LEAD	7.87	mg/kg	J	2.6	7.9	EPA_6010B

  
\_\_\_\_\_  
Laboratory Authorized Signature

MDL = Method Detection Limit. PQL = Practical Quantitation Limit.  
U = Analyte was analyzed for but was not detected above MDL.  
B = Analyte was detected in both the sample and associated blank.

BDL = Analyte was analyzed for but not detected above MDL.  
J = Analyte was detected above the MDL but below the PQL.  
Q = Surrogate recovery fell outside acceptance limits.

OL1 = Subcontracted to ODEQ Lab #7604

OUR LETTERS AND REPORTS APPLY ONLY TO THE SAMPLE TESTED AND/OR INSPECTED, AND ARE NOT INDICATIVE OF THE QUANTITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS. UNLESS NOTIFIED IN WRITING, SAMPLES ARE DISPOSED OF 15 DAYS AFTER THE SAMPLE IS REPORTED.

Page number 1

*Red River*  
Environmental Laboratory and Consulting Company

Analytical Laboratories · Environmental Consulting · Permit Application and Compliance

ODEQ ID# 9953

STATE OF OKLAHOMA - OKARNG

06/08/05

PROJECT NAME: OMD HASKELL LEAD REMEDIATION

Quality Control Report

Lab Number	Sample Identification	Parameter	Analytical Method	QC Batch Number	Dupl %Diff	Method Blank	MtrxSpk %Recvry	SpkDup %Diff	Control %Accuracy
200503670	SOIL CONFIRMATION COLLEC	PB-M-ICP	EPA_6010B	5171426	0.65	BDL	117.49	38.74	92.94
200503671	SOIL BACKGROUND COLLECTE	PB-M-ICP	EPA_6010B	5171426	0.65	BDL	117.49	38.74	92.94

*Suzi Bentz*

QA Personnel

*Red River*  
Environmental Laboratory and Consulting Company

Analytical Laboratories · Environmental Consulting · Permit Application and Compliance

To: STATE OF OKLAHOMA - OKARNG  
3515 MILITARY CIRCLE  
OKLAHOMA CITY OK 73111

Attn: ACCOUNTS PAYABLE

OKARNG

PROJECT #  
PROJECT NAME: OMD HASKELL LEAD REMEDIATION

Invoice No. 200503670  
Invoice Date: 06/08/05  
PO#

**INVOICE**

Lab Number	Date Received	Sample Identification Source	Sample Charges
200503670	05/27/05	SOIL CONFIRMATION COLLECTED FROM SOIL BENEATH SAND	\$15.00
200503671	05/27/05	SOIL BACKGROUND COLLECTED 50' SOUTH	\$15.00
TOTAL AMOUNT DUE			<u><u>\$30.00</u></u>

THANK YOU  
DUE UPON RECEIPT  
ALL OUTSTANDING INVOICES WILL BE CHARGED 1.75% MONTHLY

JUN-17-2005 10:36 FROM:

3162697455

TO: 4058721408

P.2



# Land Disposal Restriction Notification Form

Page 1 of 1

Date: 06 / 17 / 2005

**MANIFEST INFORMATION**

Generator: Oklahoma Military Dept

Manifest No \_\_\_\_\_

Address: 3515 Military Circle  
Oklahoma City, OK 73111

Sales Order No: DK982878

EPA ID#: O K P 4 1 0 1 7 3 8 1 6

Manifest Document No: \_\_\_\_\_

**LINE ITEM INFORMATION**

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category:
11a	1	CH98529	NON-WASTEWATER	2 : This is subject to LDR.

EPA Waste Codes \_\_\_\_\_  
D008 \_\_\_\_\_ EPA Waste Subcategory \_\_\_\_\_  
Toxicity Characteristic for Lead \_\_\_\_\_

Applies to  
Manifest  
Line Items

**Certification**

Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268. 11a

Waste analysis data, where available, is attached

Signature: Naomi Scull Print Name: Naomi Scull  
 Title: Program Office Date: 6/17/2005

3515 Military Circle, Okla City, OK 73111-4398 Phone:  
405-228-5363 FAX:

OKLAHOMA  
MILITARY  
DEPARTMENT  
OKDE-ENV

## ENVIRONMENTAL



BRANCH

Fax

To: Caldwell Environmental

From: CPT Terry Hale

Fax: 872-1408

Pages: Cover plus 3

Phone:

Date: 13 JUN 05

Re:

CC:

Urgent

For Review

Please Comment

Please Reply

Please Recycle



CH \_\_\_\_\_

## FOR INTERNAL USE ONLY:

- Normal Profile     X-Profile  
 One Time Waste     Repeat Waste

For V. Profile code in R17, R20, R5A1

## Waste Material Profile Sheet

Profile Number CH \_\_\_\_\_

## A. GENERAL INFORMATION

GENERATOR EPA ID # OKP410173816

GENERATOR CODE (Assigned by Clean Harbors)

ADDRESS: 3515 Military CircleGENERATOR TECHNICAL CONTACT: Jon Deyssinger / Mark Miller

CUSTOMER CODE (Assigned by Clean Harbors)

ADDRESS: 1100 N. Main

Texas Waste Code:

Texas State I.D.

GENERATOR NAME: Oklahoma Military Dept.CITY Oklahoma City STATE OK ZIP 73111PHONE: (405) 872-1400CUSTOMER NAME: Caldwell EnvironmentalCITY Noble STATE OK ZIP 73068

## B. WASTE DESCRIPTION

Common Name of Waste: Sand and Soil contaminated with LeadProcess Generating Waste: Sand removed from a bullet stop in a firing range.

## Process Generating Waste:

(check one) If spill, origin of spilled material:

- Unused chemical or product  
 Lab Pack  
 Spent halogenated solvents  
 Spent non-halogenated solvents  
 Wastewater treatment sludge from electroplating or etching operations  
 Spent plating bath solutions or residues of plating, stripping and cleaning baths where cyanides are used in the process  
 Wood preservation  
 Inorganic pigment production  
 Organic chemical production  
 Inorganic chemical production  
 Pesticide production  
 Explosives production  
 Petroleum refining  
 Iron or steel production or finishing  
 Primary copper production  
 Primary lead production  
 Primary zinc production  
 Primary Aluminum production  
 Ferro alloy production  
 Secondary lead smelting  
 Veterinary pharmaceutical production  
 Ink formulation  
 Coking  
 Other \_\_\_\_\_  
 Unknown

Source of Waste:  
(check one)

- Unused Product or Chemical  
 Waste by-product from process  
 Spill clean up  
 Lab Pack  
 Planned site remediation  
 Other: \_\_\_\_\_

Other Process Information:  
(check all that apply)

- Electroplating  
 Conversion coating  
 Carbon steel plating  
 Printed circuit mfg.  
 Cyanide process  
 Heat treating  
 Separator sludge  
 Oven residue  
 Catalyst waste  
 Centrifuged solids  
 Condensate  
 Air, steam or vacuum stripping  
 Emission control dust  
 Acid leaching  
 Dipping operations  
 Chemical manufacturing  
 Carbon Adsorption  
 Incineration or thermal treatment  
 Refining  
 Drug mfg.  
 Distillation  
 Pesticide mfg.  
 Radiation  
 Etching of metals  
 Bag house dust

Other Process Information:  
(check all that apply)

- Slit bottoms  
 Process scrap  
 Process development  
 Out of date product  
 Spent solvent waste  
 Treatment residues  
 Filter cake  
 Degreasing  
 Exempt recyclable material  
 Packaged consumer goods  
 Off-spec chemical product  
 Zinc, Al, or tin plating  
 Anodizing  
 Cleaning/stripping  
 Wastewater treatment sludges  
 Washwaters  
 Pot liners

## C. PHYSICAL PROPERTIES (at 25°C or 77°F)

<b>PHYSICAL STATE</b> <input checked="" type="checkbox"/> Solid without free liquid <input type="checkbox"/> Powder <input type="checkbox"/> Monolithic Solid <input type="checkbox"/> Liquids with no solids <input type="checkbox"/> Liquid/solid Mixtures % free liquid _____ % settled solid _____ % total suspended solid _____ Gas/Aerosol	<b>NUMBER OF PHASES/LAYERS</b> <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 % by volume (approx.) Top _____ Middle _____ Bottom _____	<b>VISCOSITY</b> (if liquid present) <input type="checkbox"/> Low (e.g. Water) <input type="checkbox"/> Medium (e.g. motor oil) <input type="checkbox"/> High (e.g. molasses)	<b>COLOR</b> <i>Varies</i>
		<b>ODOR</b> <input checked="" type="checkbox"/> None or mild <input type="checkbox"/> Strong	
<b>FLASH POINT</b> <input type="checkbox"/> < 73 °F <input type="checkbox"/> 73 – 100 °F <input type="checkbox"/> 101 – 140 °F <input type="checkbox"/> 141 – 200 °F <input type="checkbox"/> > 200 °F	<b>pH</b> <input type="checkbox"/> ≤ 2 <input type="checkbox"/> 2.1 – 6.9 <input type="checkbox"/> 7 (neutral) <input type="checkbox"/> 7.1 – 12.4 <input type="checkbox"/> ≥ 12.5	<b>SPECIFIC GRAVITY</b> <input type="checkbox"/> < 0.8 (e.g. Gasoline) <input type="checkbox"/> 0.8 – 1.0 (e.g. Ethanol) <input type="checkbox"/> 1.0 (e.g. Water) <input type="checkbox"/> 1.0-1.2 (e.g. Antifreeze) <input type="checkbox"/> ≥ 1.2 (e.g. Methylene Chloride)	<b>TOTAL ORGANIC CARBON</b> (if liquid) <input type="checkbox"/> ≤ 1% <input type="checkbox"/> 1-10% <input type="checkbox"/> ≥ 10%
			<b>STU/LB</b> <input type="checkbox"/> ≤ 2000 <input type="checkbox"/> 2,000 – 5,000 <input type="checkbox"/> 5,000 – 10,000 <input type="checkbox"/> > 10,000
			<b>VAPOR PRESSURE</b> (for liquids only) mm/Hg



CH \_\_\_\_\_

D. COMPOSITION (Must add up to at least 100%. Include inert materials and/or debris if applicable. Actual percent or range is acceptable.)

<u>Soil and Sand</u>	98 %
<u>PPE and Debris</u>	1 %
<u>Leak</u>	1 %
	%
	%
	%
	%

Check if MSDS attached.

E. Constituents - Attach any available analysis. Enter values or ranges where known. For TCLP values, BRL signifies below regulatory level. None, unknown, and present are also acceptable answers.

Are these values based on  Knowledge or  Testing?

#### INORGANIC

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL mg/l	OTHER METALS	TOTAL	NON-METALS	WT%
D004	ARSENIC	5.0			ALUMINUM		SULFUR	
D005	BARIUM	100.0			ANTIMONY		BROMINE	
D006	CADMIUM	1.0			BERYLLIUM		CHLORINE	
D007	CHROMIUM	5.0			CALCIUM		FLUORINE	
D007	CHROMIUM CR+6				COPPER		IODINE	
D008	LEAD	5.0	201		MAGNESIUM			
D009	MERCURY	0.2			MOLYBDENUM			
D010	SELENIUM	1.0			NICKEL		AMMONIA	PPM
D011	SILVER	5.0			POTASSIUM		REACTIVE SULFIDE	
					SILICON		CYANIDE-TOTAL	
					SODIUM		CYANIDE-AMENABLE	
					THALLIUM		CYANIDE REACTIVE	
					TIN			
					VANADIUM			
					ZINC			

#### ORGANIC

VOLATILE COMPOUNDS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL mg/l	SEMI-VOLATILE COMPOUNDS	REGULATORY LEVEL (mg/l)	TCLP	TOTAL
D018 BENZENE	0.5			D023 o-CRESOL	200.0		
D019 CARBON TETRACHLORIDE	0.5			D024 m-CRESOL	200.0		
D021 CHLOROBENZENE	100.0			D025 p-CRESOL	200.0		
D022 CHLOROFORM	6.0			D026 CRESOL(TOTAL)	200.0		
D028 1,2-DICHLOROETHANE	0.5			D027 1,4-DICHLOROBENZENE	7.5		
D029 1,1-DICHLOROETHYLENE	0.7			D030 2,4-DINITROTOLUENE	0.13		
D035 METHYLETHYL KETONE	200.0			D032 HEXACHLOROBENZENE	0.13		
D039 TETRACHLOROETHYLENE	0.7			D033 HEXACHLOROBUTADIENE	0.5		
D040 TRICHLOROETHYLENE	0.5			D034 HEXACHLOROETHANE	3.0		
D043 VINYL CHLORIDE	0.2			D036 NITROBENZENE	2.0		
				D037 PENTACHLOROPHENOL	100.0		
				D038 PYRIDINE	5.0		
				D041 2,4,5-TRICHLOROPHENOL	400.0		
				D042 2,4,6-TRICHLOROPHENOL	2.0		

PESTICIDES AND HERBICIDES	REGULAROTY LEVEL (mg/l)	TCLP mg/l	TOTAL mg/l
D012 ENDRIN	0.02		
D013 LINDANE	0.4		
D014 METHOXCHLOR	10.0		
D015 TOXAPHENE	0.5		
D016 2,4-D	10.0		
D017 2,4,5-TP (Silvex)	1.0		
D020 CHLORODANE	0.03		
D031 HEPTACHLOR (AND ITS EPOXIDE)	0.008		

OTHER  
PHENOL  
TOTAL PETROLEUM HYDROCARBONS (soils only) PPM  
PCB'S  
 NONE  
 < 50PPM  
 ≥ 50PPM HOC'S  
 IF PCB'S ARE PRESENT  
 < 50 PPM, IS THE WASTE  
 REGULATED BY TSCA  
 40 CFR 761?  
 YES  NO  
 < 1000 PPM  
 ≥ 1000 PPM

OTHER HAZARDS	YES	PESTICIDE	YES	SHOCK SENSITIVE	YES	DEA REGULATED SUBSTANCE	YES
WATER REACTIVE	<input type="checkbox"/>	HERBICIDE	<input type="checkbox"/>	THERMALLY SENSITIVE	<input type="checkbox"/>	OXIDIZER	<input type="checkbox"/>
RADIOACTIVE	<input type="checkbox"/>	EXPLOSIVE	<input type="checkbox"/>	INFECTIOUS, PATHOGENIC, OR ETIOLOGICAL AGENT	<input type="checkbox"/>	REDUCING AGENT	<input type="checkbox"/>
DIOXIN	<input type="checkbox"/>	SPONTANEOUSLY		ASBESTOS	<input type="checkbox"/>	NONE OF THE ABOVE	<input type="checkbox"/>
OSHA REGULATED CARCINOGENS	<input type="checkbox"/>	IGNITES WITH AIR	<input type="checkbox"/>				

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?  
 NO  (If yes, explain)



CH \_\_\_\_\_

## F. REGULATORY STATUS

N

- USEPA HAZARDOUS WASTE? (If Yes, list codes.) D001
- DO ANY GENERATOR STATE WASTE CODES APPLY? If YES, list state codes.

LIST ANY FEDERAL OR STATE WASTE CODES WHICH MAY VARY FROM SHIPMENT TO SHIPMENT:

WILL THE DECISION TO VARY THESE WASTE CODES BE BASED ON  KNOWLEDGE OR  TESTING (check one).  
IF KNOWLEDGE, DESCRIBE BASIS OF KNOWLEDGE:

- IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 261?  
THIS WASTE IS A:  WASTEWATER  NON WASTEWATER PER USEPA DEFINITION IN 40 CFR 268.2?

IF ANY WASTE CODES D001, D002, D003 (OTHER THAN REACTIVE CYANIDE OR REACTIVE SULFIDE), D004-D011, D012-D017 NON WASTEWATERS, OR  
OR D018-D043 APPLY, ARE THERE ANY UNDERLYING HAZARDOUS CONSTITUENTS (UHS'C) PRESENT ABOVE UNIVERSAL TREATMENT STANDARDS (UTS)?

- DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?  
IS THIS WASTE SUBJECT TO CATEGORICAL PRETREATMENT DISCHARGE STANDARDS?

IF YES, SPECIFY POINT SOURCE CATEGORY LISTED IN 40 CFR PART 401.

- IS THIS WASTE REGULATED UNDER THE BENZENE NESHAP RULES? (IS THIS WASTE FROM A CHEMICAL MANUFACTURING, COKE BY-PRODUCT RECOVERY,  
OR PETROLEUM REFINERY PROCESS?)

- DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS ≥ 500 PPM?

- DOES THIS WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE ≥ 3KPA (44 psia)?

- DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE GREATER THAN 77 Kpa (11.2psia)?

G. D.O.T. INFORMATION: List all shipping names that may be used. Attach additional page if necessary.  
D.O.T. SHIPPING NAME Hazardous Waste Svcs IncDOT HAZARD CLASS: 9UN/NA# 1A3677 PACKING GROUP(Circle 1) I II III HAZARD ZONE (Circle 1)

A B C D

WILL THIS SHIPPING NAME VARY?  Y  N IF YES, WILL ASSIGNMENT OF PROPER SHIPPING NAME BE BASED ON  KNOWLEDGE OR  TESTING? (check one)  
IF KNOWLEDGE, DESCRIBE BASIS OF KNOWLEDGE:

## TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY:  ONE TIME  WEEKLY  SEMI-MONTHLY  MONTHLY  QUARTERLY  OTHER BULK LIQUID BULK SOLID CONTAINERIZED

GALLONS/SHIPMENT: GAL  
 FROM TANKS: TANK SIZE GAL  
 FROM DRUMS:

TON/YD PER SHIPMENT  
 STORAGE CAPACITY TON/YD  
 VEHICLE TYPE:

4-5 CONTAINERS/SHIPMENT  
 STORAGE CAPACITY: CONTAINERS  
 CONTAINER TYPE:

VEHICLE TYPE:  
 VAC TRUCK  
 TANK TRUCK  
 RAILROAD TANK CAR  
 CHECK COMPATIBLE STORAGE MATERIALS:  
 STEEL  STAINLESS STEEL(316)  
 RUBBER LINED  FIBERGLASS LINED  
 OTHER

DUMP TRAILER  
 ROLL OFF BOX  
 INTERMODAL ROLL OFF BOX  
 CUSCO/ACTOR  
 OTHER

CUBIC YARD BOX  
 PALLET  
 TOTE TANK  
 DRUMS SIZE:  
 CONTAINER MATERIAL:  
 STEEL  
 FIBER  
 PLASTIC  
 OTHER

## I. SAMPLE STATUS

REPRESENTATIVE SAMPLE HAS BEEN SUPPLIED,  YES  NO SAMPLED BY

DATE SAMPLED

## J. SPECIFIC DISPOSAL RESTRICTION OR REQUESTS:

SPECIAL WASTE HANDLING REQUIREMENTS:

OTHER COMMENTS OR REQUESTS:

## J. BIENNIAL/ANNUAL REPORTING INFORMATION.

SIC CODE

SOURCE CODE

FORM CODE

ORIGIN CODE

## GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge. I also certify that any samples submitted are representative of the actual waste. If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE

*[Signature]*  
 Oklahoma Military Department  
 NAME (PRINT)

Deputy Environmental Program Manager 13 JUN 05  
 TITLE DATE

*[Signature]*  
 On behalf of  
 Okla. Military Dept.

*[Signature]* Operations Mgr. 5-23-05

FOR CLEAN HARBORS USE ONLY

HI REPRESENTATIVE COMPLETING PROFILE:

# *Red River*

Environmental Laboratory and Consulting Company

Analytical Laboratories · Environmental Consulting · Permit Application and Compliance

ODEQ ID# 9953

To: RICHARD BROOKS  
STATE OF OKLAHOMA - OKARNG  
3515 MILITARY CIRCLE  
OKLAHOMA CITY OK 73111

Project #: OMD HASKELL LEAD REMEDIATION  
Sample Name: Sample Group:  
- CERTIFICATE OF ANALYSIS -

PD Number:  
Date Received: 05/27/05  
Report Date: 06/08/05

Lab Number	Sample Identification	Matrix	Date Sampled	Parameter	Results	Units	Q	MDL	PQL	Method
200503670	SOIL CONFIRMATION COLLECTED FROM SOIL BENEATH SAND	SOIL	05/26/05	LEAD	10.8	mg/kg		2.6	7.9	EPA_6010B
200503671	SOIL BACKGROUND COLLECTED 50' SOUTH	SOIL	05/26/05	LEAD	7.87	mg/kg	J	2.6	7.9	EPA_6010B

*Ron Bentzill*  
Laboratory Authorized Signature

MDL = Method Detection Limit. PQL = Practical Quantitation Limit. BDL = Analyte was analyzed for but not detected above MDL.  
U = Analyte was analyzed for but was not detected above MDL. J = Analyte was detected above the MDL but below the PQL.  
B = Analyte was detected in both the sample and associated blank. Q = Surrogate recovery fell outside acceptance limits.

OL1 = Subcontracted to ODEQ Lab #7604  
OUR LETTERS AND REPORTS APPLY ONLY TO THE SAMPLE TESTED AND/OR INSPECTED, AND ARE NOT INDICATIVE OF THE QUANTITIES  
OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS. UNLESS NOTIFIED IN WRITING, SAMPLES ARE DISPOSED OF 15 DAYS AFTER  
THE SAMPLE IS REPORTED.

Page number 1

6510 S. Western Ave., Suite 207, Oklahoma City, OK 73139  
Phone: 405-232-1966 or 1-800-USA-KNOW · Fax: 405-235-8234 · [www.RedRiverELCC.com](http://www.RedRiverELCC.com)

# *Red River*

Environmental Laboratory and Consulting Company

Analytical Laboratories • Environmental Consulting • Permit Application and Compliance

ODEQ ID# 9953

STATE OF OKLAHOMA - OKARNG

06/08/05

PROJECT NAME: OMD HASKELL LEAD REMEDIATION

## Quality Control Report

Lab Number	Sample Identification	Parameter	Analytical Method	QC Batch Number	Dupl %Diff	Method Blank	MtrixSpk %Recvry	SpkBup %Diff	Control %Accuracy
200503670	SOIL CONFIRMATION COLLEC	PB-M-ICP	EPA_6010B	5171426	0.65	BDL	117.49	38.74	92.94
200503671	SOIL BACKGROUND COLLECTE	PB-M-ICP	EPA_6010B	5171426	0.65	BDL	117.49	38.74	92.94

*Ben Headwaters*  
QA Personnel

6510 S. Western Ave., Suite 207, Oklahoma City, OK 73139  
Phone: 405-232-1966 or 1-800-USA-KNOW • Fax: 405-235-8234 • [www.RedRiverELCC.com](http://www.RedRiverELCC.com)

## CALDWELL ENVIRONMENTAL ASSOCIATES, INC.

A FAX FROM THE DESK OF:

Terry AndraeFAX NUMBER: (405) 872-1408DATE: 6/13/05 TIME: \_\_\_\_\_PAGES (Including Cover Sheet): 5TO: Capt. Terry HaleCOMPANY: OKDE- ENVFAX NUMBER: 228-5086COMMENTS: Please sign either the profile sheet (right above or below Jon's) or ~~the~~ fill out and sign the designation of "authorized representative" sheet and fax back.Thanks,Terry

To whom it may concern:

Re: Designation of "Authorized Representative" (40CFR 260.10) Status for hazardous waste disposal services

By signing this document below, I hereby authorize \_\_\_\_\_ or its designee to act as my agent and as my "authorized representative" (as defined by the Resource Conservation and Recovery Act, codified in 40CFR 260.10) to prepare documents required for transportation and disposal of hazardous waste. Such services are to include, but are not limited to, performing analysis, making waste certifications and preparing documentation such as profiles, manifests, notifications and certifications of land disposal restrictions and other necessary documents.

I hereby certify that I have authority to execute this letter designating \_\_\_\_\_ to act as my authorized representative. I also understand that \_\_\_\_\_ remains fully liable under Federal and State hazardous waste regulations as the "generator" of the waste material

Signature: \_\_\_\_\_ Title: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_

## OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

## LAND PROTECTION DIVISION

(405) 702-5100 /Fax (405) 702-5101

DISPOSAL PLAN APPLICATION FOR A  CONTINUOUS  ONE TIME

See instructions on reverse side before completing this form. DO NOT REDUCE THIS FORM.

GENERATOR'S EPA ID NO: \_\_\_\_\_

 New Plan  Amendment to Disposal Plan  Amendment to existing waste stream No.: \_\_\_\_\_Business/Plant Name Oklahoma Military DepartmentPlant Address/Location Haskell Armory/1 mile N on H-64 City Haskell State OK Zip 74436Mailing Address 3515 Military Circle City OKC State OK Zip 73111-4398Plant Contact Captain Terry Hale, Jr. Deputy Environmental Program Mgr.  
Title CPT Terry Hale, Jr Telephone 405-228-5363

## DETAILED WASTE DESCRIPTION

Waste-Name

Sand and soil contaminated with lead.

EPA-Waste

Code(s) D008

Amount of Waste Produced

No. of Lbs. Frequency Physical  Liquid  Sludge  Solid  Layered5,000  Day  Week Chemical  Ignitable (Flashpoint \_\_\_\_\_°F)  Corrosive (pH \_\_\_\_\_)  Reactive  
(est.)  Month  Year  One-time Laboratory analysis attached. Material Safety Data Sheet(s) are acceptable for off-specification products only.

## PROCESS GENERATING WASTE (SEE INSTRUCTIONS, USE ADDITIONAL SHEETS IF NECESSARY)

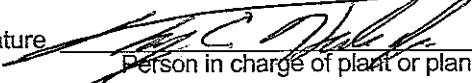
Sand was removed from an indoor firing range. The sand was used to collect bullets under a back stop in the range. These bullets contain lead. The sand was placed on the ground outside of the building. This sand pile in addition to a few inches of native soil was excavated and placed into appropriate containers for transportation and disposal.

## TSD INFORMATION (USE CONTINUATION PAGE IF NECESSARY)

Site receiving waste Clean Harbors Lone Mtn. Facility Telephone (580) 697-3525Mailing address Route 2, Box 170 City Waynoka State OK Zip 73860Site location 5 mi E, 1 mi N H2811412 EPA ID NOKD065438376

## CERTIFICATION

The above information is accurate to the best of my knowledge. I will only use those transporters registered with the state of Oklahoma to pick up hazardous wastes within the State of Oklahoma or to transport hazardous wastes to an appropriate receiving facility in the State of Oklahoma.

Signature 

Person in charge of plant or plant contact

Date 12 MAY 05Typed or printed name of signer CPT. Terry Hale, Jr.

Oklahoma Generators Only. List county where waste is Generated:

**WORK PLAN  
AND  
HEALTH AND SAFETY PLAN**

**REMEDIATION OF LEAD CONTAMINATION**

**HASKELL READINESS CENTER  
OKLAHOMA ARMY NATIONAL GUARD  
HASKELL, OKLAHOMA**

**Prepared for:  
Oklahoma Military Department**

**Prepared By:**



**Caldwell Environmental Associates, Inc.**

# WORK PLAN

## INTRODUCTION

Approximately three (3) cubic yards of sand containing expended lead bullets and bullet fragments was placed on the Haskell Readiness Center property located along State Highway 64 in Haskell, Oklahoma. Samples of the sand were then collected and analyzed by the Oklahoma Army National Guard (OKARNG) and found to contain 1,010 mg/kg of total lead and 201 mg/L of TCLP lead.

Caldwell Environmental Associates, Inc. has been contracted by the Oklahoma Army National Guard to remove and dispose the lead contaminated sand pile and residue, a pickup bed that was used to haul the sand, and the Readiness Center asphalt parking lot.

## OBJECTIVES

The main objective for this project is to remove all lead contaminated sand and residue from the Haskell Readiness Center. It is imperative that the work be performed safely and in such a way as to not spread contamination beyond areas that have already been contaminated.

Soils at either site must be below the ODEQ residential cleanup level of 400 mg/kg for Total Lead..

## PERSONNEL

Jon Dysinger will be the Project Manager for this project. The Project Manager will directly manage all site activities and will coordinate the project with OKARNG personnel. Mr. Dysinger will also be responsible for insuring that all Health and Safety protocols are met during the project.

## ASSUMPTIONS

This work plan has been developed under the following assumptions:

OKARNG personnel will be on hand to open the facility, provide electricity and water, sign transportation manifests, and collect soil confirmation samples.

## WORK TASKS

The following is a description of each work task necessary for completion of the project.

**Clean Pickup Bed** - The pickup bed will be decontaminated by vacumming the bed thoroughly with a HEPA vacuum and then wet wiped with a "Spic-n-Span" solution.

**Clean Parking Lot** – Visible sand on the asphalt parking lot will be decontaminated by vacuuming thoroughly with a HEPA vacuum. After vacumming, the vacuum collection bin will be emptied into a plastic bag and then wet wiped. The bagged material will then be placed in a cubic yard tote box for transport and disposal.

**Remove Sand Pile** – The sand pile will be picked up and placed in cubic yard tote boxes. Soil under the sand pile will also be excavated and placed in the cubic yard tote boxes. The sand and soils will be wetted continuously to prevent dust emmissions while they are being picked up and moved.

**Backfill and Reseed Excavation Area** – The excavation area will be backfilled with topsoil, fertilized, seeded with bermuda grass seed, and watered.

**Transportation and Disposal** – The tote boxes that contain lead contaminated materials will be properly labeled, manifested, tranported and disposed as hazardous waste (D008).

## RECORD KEEPING

A log book will be kept by the Project Manager that will document daily information about the project. Daily entries will include the following information:

- Description of activities
- Names of personnel who worked and worker time log
- Work accomplished
- Details about photographs
- Details regarding staged equipment
- Documentation of any permits
- Health and Safety documentation

## SAFETY AND HEALTH PLAN

### GENERAL INFORMATION

Client Name:

Contact: LT Terry Hale, OKARNG

Contact Number:

Voice: 405-228-5699

Site Location (Address):

Haskell Readiness Center  
North of Town on State Highway 64  
Haskell, Oklahoma

Description of Surroundings:

Residential area

Type of Business:

Recruitment and exercise facility.

Currently Operational?

Yes.

Tasks to be Completed:

- Clean pickup bed.
- Removal of sand in parking lot.
- Pickup sand pile and place in one cubic yard tote box.
- Excavate soil beneath sand pile and place in one cubic yard tote box.
- Backfill excavation area.

## **ASSIGNMENT OF RESPONSIBILITIES**

Name of Project Manager:

Jon Dysinger

Name of Health and Safety Officer:

Jon Dysinger

Name of Other Site Personnel by Job Description:

Environmental Technician – Kevin Jackson

Environmental Technician – Scott Daley

List Tasks to be Performed and Personnel Responsible for Performing Each Tasks:

The Project Manager is responsible for all activities associated with the project. These activities include: planning and directing the actual work, enforcement of this safety plan, implementation of the Emergency Response Plan, and coordination of personnel.

The Health and Safety Officer is responsible for ensuring that site personnel have met the requirements for training and experience as spelled out in 29 CFR 1910. The Health and Safety Officer will conduct site safety briefings and is responsible for stopping all or partial on-site activities should a situation arise that could be threatening to human health or the environment.

The Environmental Technicians are responsible for familiarizing themselves with the Safety Plan, using personal protective equipment as directed in this Plan and in accordance with the company's SOP, and performing other tasks as directed by the Project Manager or Health and Safety Officer.

## **HAZARD ANALYSIS FOR SITE TASK OR OPERATION**

Potential Health Hazards (due to nature of the project):

***Exposure to toxic chemicals*** – The sand is contaminated with lead from a firing range. Dust or residue from the sand or areas where the sand was placed may contain lead. The ingestion, inhalation, and/or exposure to lead can cause potentially serious health effects.

***Cuts and scrapes*** – Tools used to excavate the sand or soils may have sharp edges or protruding points that could cut or scrape employees.

***Heat Stress*** – Employees could be exposed to heat stress.

**Special Procedures to be Followed in Response to Health and Safety Hazards:**

The sand and dirt will be wetted by misting to prevent dust emmissions during handling.

Employees should wear Level D PPE during the pickup and parking lot cleanup and the removal of sand and soil. The Level D PPE should include Tyvek Coveralls, Gloves, Steel Toed Boots and Safety Glasses.

Full faced Respirators (PPE Level C) with particulate filters should be worn by workers if dust can be potentially emitted in the worker breathing zone.

Leather gloves will be worn by employees handling equipment with sharp edges.

Employees will take frequent breaks and drink fluids to prevent heat stress.

Employees will wear ear plugs when operating loud equipment.

Employees will not work underneath other workers and will wear hardhats when working underneath potential falling objects.

## **HEALTH HAZARDS**

**Potential Toxins at Site:**

The only potential toxic known at this site is lead.

**Acute Effects:**

Inhalation: May cause irritation to the upper respiratory system, insomnia, dryness of the mouth and a metallic taste.

Ingestion: May cause constipation and abdominal pain, colic, tremors, nausea, vomiting, diarrhea, metallic taste, loss of appetite, irritability and muscle pain. May cause acute lead toxicity.

Skin: May cause irritation.

Eye: May cause irritation.

### Chronic Effects:

Inhalation: May cause chronic lead toxicity. May be toxic to the central and peripheral nervous system affecting the cerebellum, spinal cord, motor and sensory nerves.

Ingestion: May cause anemia, gingival lead line, paralysis in the wrist and permanent neurological injury. May cause chronic lead toxicity. May cause nephritis, scarring and shrinking of the kidney tissue.

Skin: No chronic health effects recorded.

Eye: No chronic health effects recorded.

### Effects of Exposure:

Lead poisoning is one of the commonest of occupational diseases. The lead must be in such form, and so distributed, as to gain entrance into the body or tissues of the worker in measurable quantity, otherwise no exposure can be said to exist. Some lead compounds are carcinogens of the lungs and kidneys. Lead is a cumulative poison. Increasing amounts build up in the body and eventually reach a point where symptoms and disability occur. Chronic exposure may cause damage to nervous, urinary, blood-forming and reproductive systems.

Target Organs: May affect the gastrointestinal tract, central nervous system, kidneys, blood, skin and the gingival tissue.

Medical Conditions Generally Aggravated by Exposure: Pre-existing lung and circulatory disorders.

## **EMERGENCY AND FIRST AID PROCEDURES**

INHALATION: Remove victim to fresh air; keep warm and quiet; give oxygen if breathing is difficult and seek medical attention immediately.

INGESTION: Give 1-2 glasses of milk or water and induce vomiting; seek medical attention immediately. Never induce vomiting or give anything by mouth to an unconscious person.

SKIN: Remove any contaminated clothing, brush material off of skin, wash affected area with mild soap and water; seek medical attention if symptoms persist.

EYES: Flush eyes with lukewarm water, lifting upper and lower eyelids, for at least 15 minutes. Seek medical attention if symptoms persist.

## **DESCRIPTION OF EMPLOYEE TRAINING**

### Training Requirements:

All personnel working in the room shall have completed the personnel protection courses and fully comply with 1910.120.

### Additional Site Specific Personnel Instruction:

All site personnel shall be instructed in basic hazard awareness by the Site Safety Officer prior to work on the site. Training will include:

1. Personnel and alternates responsible for safety and health.
2. Acute and chronic effects of the contaminants on site.
3. Use of personal protection equipment, its effectiveness and its limitations.
4. Emergency procedures.
5. Decontamination procedures.
6. Confined space entry procedures.
7. Work practices to minimize risks from hazards.
8. Medical Surveillance including recognition of symptoms of overexposure to hazards.
9. Spill Containment.
10. Heat stress precautions.

Information concerning the health and safety hazards of the contaminants at the site shall be maintained at the site by the Health and Safety Officer, and shall be available to the employees for examination.

## **PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS**

### Level of Personal Protective Equipment (PPE) to be Worn while Performing On Site Activities:

Level C and D PPE will be worn by personnel working in the exclusion zone.

### Description of Equipment Included in this Level:

#### Level D

Clothing:      Work clothes

Gloves: Latex, rubber, cotton, or leather  
Boots: Steel toe boots

Level C

Clothing: Breathable, hooded Tyvek suit that covers arms and legs  
Gloves: Latex, rubber, cotton, or leather  
Respirator: Full-face with particulate cartridges  
Boots: Steel toe boots

Effectiveness/Limitations of PPE:

Level D protection will not provide adequate respiratory or skin protection and should only be used if there is no dust potential.

Level C provides good respiratory and skin protection.

The cartridges should be changed as often as needed, i.e., when any odor, taste, or irritation of the eye, nose or throat is detected while the respirator is being worn; when breathing resistance increases; or at a predetermined exchange rate such as the start of each new shift.

## **SITE SPECIFIC MEDICAL SURVEILLANCE REQUIREMENTS**

There is no additional or special medical surveillance required due for the potential job exposures on this site.

## **SITE CONTROL MEASURES**

Description of Exclusion Zone:

The exclusion zone will be considered to be the contaminated pickup, parking lot, and sand pile areas.

Description of Support/Clean Zone:

The support/clean zone will be located beyond the decontamination zone.

Description of Procedures for Entering each Zone:

All personnel will have received required training as specified in 29 CFR Part 1910, and undergo a briefing of the Site Specific Safety Plan prior to

their entering into the active work area. All personnel must be wearing the level of PPE as previously specified in paragraphs 5.1 and 5.2 of this Site Specific Safety Plan prior to entering the exclusion zone.

Description of Procedures for Exiting each Zone:

All exiting from the active work area, normally designated as the decontamination zone, must be through the same location to minimize the potential spread of lead containing dust.

Standing Orders:

All smoking or other activities which may cause indirect ingestion of contaminants (i.e. eating, drinking, or use of tobacco) will not be allowed at the job site. No unauthorized personnel will be allowed on the site.

## **DECONTAMINATION PROCEDURES**

Personnel Decontamination Procedures:

All PPE and other articles considered to have been contaminated will be decontaminated or discarded prior to leaving the decontamination zone.

All personnel who have entered the immediate work area shall wash their hands and face prior to leaving the site.

In an emergency situation decontamination may be delayed in order to administer first aid and to stabilize injured personnel.

Description of Equipment Decontamination Procedures:

Properly dispose of all disposable clothing and wash water.

## **EMERGENCY PLAN**

For the purposes of this plan, an emergency is defined as any that could result in a threat to human health or the environment. Should an emergency situation occur, the first person noticing the emergency should notify the Project Manager immediately. He will notify the OKARNG Emergency Response Coordinator.

The Project Manager/Site Safety Officer will be responsible for evacuating the area, should it be needed, accounting for all personnel that were in the area, and implementing immediate corrective measures.

Directions to Hospital

Directions to the nearest hospital, Muskogee Regional Medical Center (phone (918) 682-5501) are as follows: From Haskell, go south on State Highway 64 to junction with State Highway 16 (approx. 6 miles). Turn left (east) and go another 13 miles on State Highway 16 and 64 into the City of Muskogee (Highway turns into Okmulgee Street). Turn right (south) onto 35<sup>th</sup> Street and into the Hospital parking area.

E. Photographs from site visit April 22, 2011



Figure 1 Classroom ceiling damaged



Figure 2 Classroom mastic exposed



Figure 3 Classroom painting



Figure 4 Drill Floor

*Phase I TBA*

*Haskell Armory  
Haskell, Oklahoma*



Figure 5 Drill Floor Ceiling Damage



Figure 6 Drill Floor Wall Paint Peeling



Figure 7 Firing Range Acoustic Tiles



Figure 8 Firing range ceiling damage

*Phase I TBA*

*Haskell Armory  
Haskell, Oklahoma*



Figure 9 Firing range ceiling vent

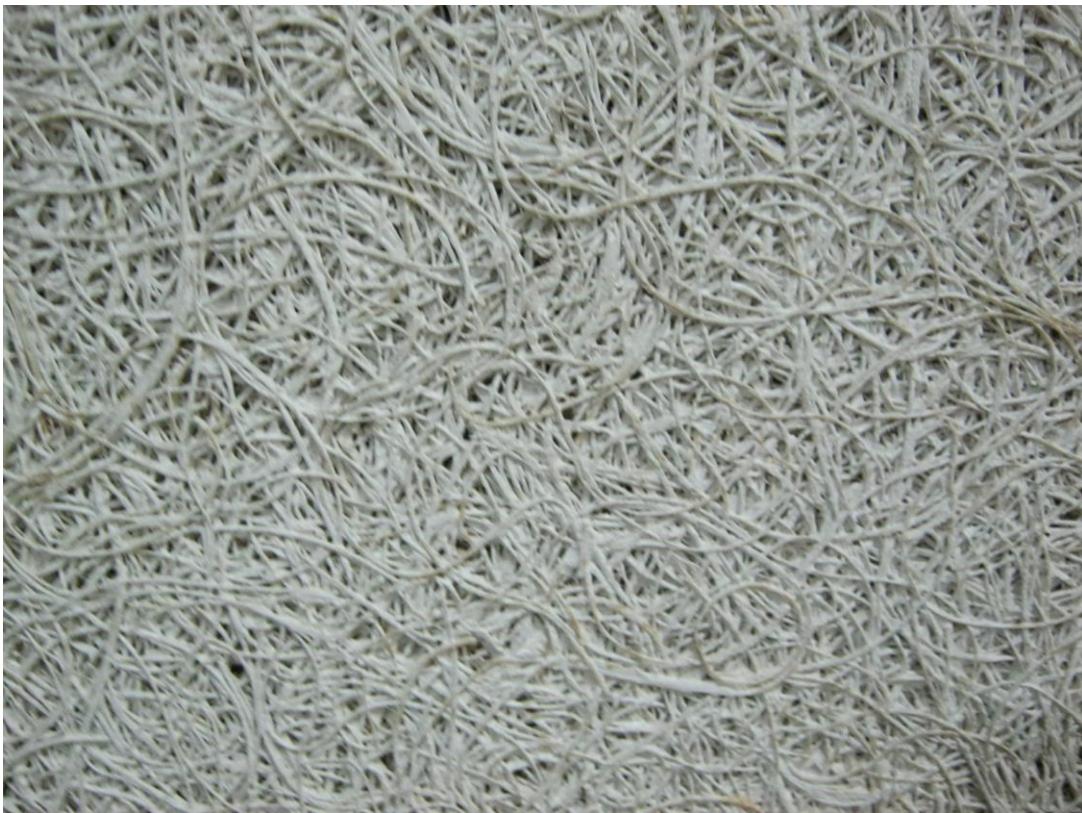


Figure 10 Firing range close up acoustic tiles



Figure 11 Firing range sand pit



Figure 12 Firing range backstop



Figure 13 front hall damaged wall tile



Figure 14 front hall exposed mastic



Figure 15 kitchen grease trap



Figure 16 kitchen pipes thermal insulation

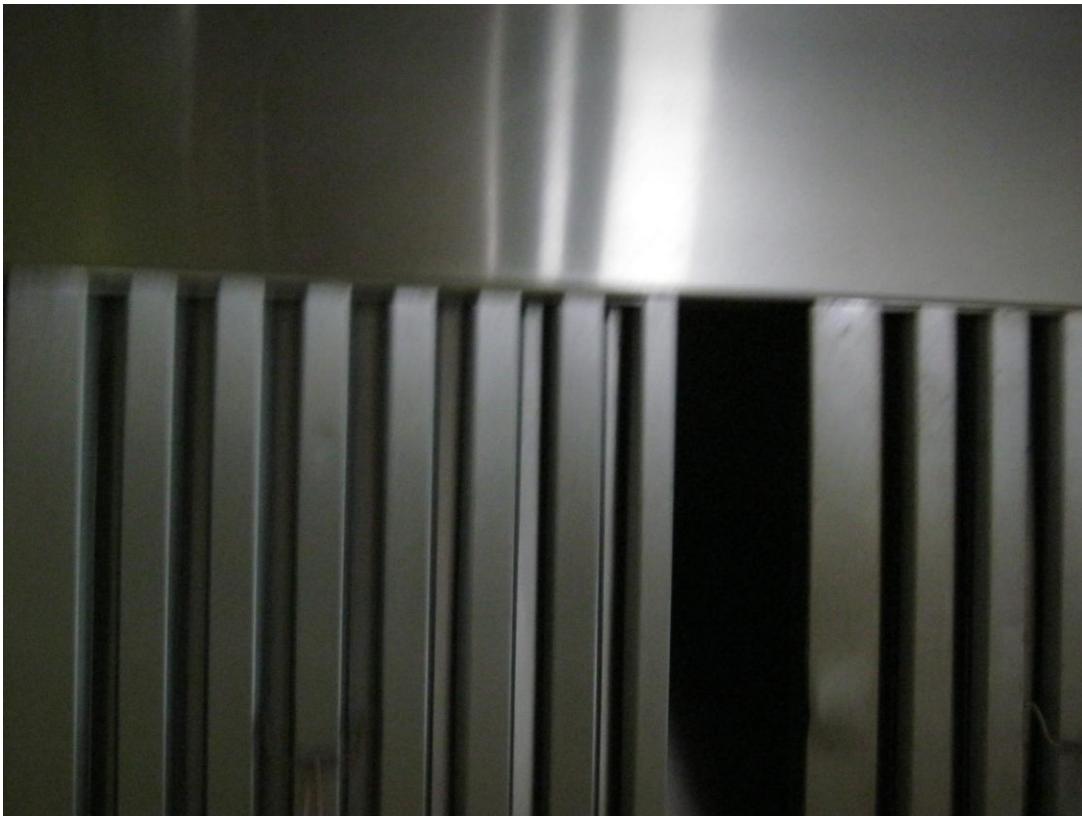


Figure 17 kitchen stove vent



Figure 18 kitchen thermal insulation



Figure 19 locker room breaker box



Figure 20 locker room floor



Figure 21 machine room ceiling



Figure 22 machine room ceiling damage



Figure 23 machine room electronics



Figure 24 machine room pipe insulation



Figure 25 machine room pipe insulation 2



Figure 26 machine room wall damage



Figure 27 maintenance room pipe insulation 1



Figure 28 maintenance room pipe insulation 2



Figure 29 maintenance room wall damage



Figure 30 to the south autobody shop neighbor



Figure 31 outside damage in roof



Figure 32 outside damaged panel beneath window



Figure 33 outside example sample location



Figure 34 outside firing range door



Figure 35 outside firing range vent



Figure 36 outside front of building

*Phase I TBA*

*Haskell Armory  
Haskell, Oklahoma*



Figure 37 outside firing range vent from front



Figure 38 outside drill floor door



Figure 39 outside gutters



Figure 40 outside rear parking lot



Figure 41 outside sampling area



Figure 42 outside service bay

*Phase I TBA*

*Haskell Armory  
Haskell, Oklahoma*



Figure 43 outside shed



Figure 44 outside wall



Figure 45 pantry ceiling damage



Figure 46 pantry damaged wall tile



Figure 47 scullery grease trap



Figure 48 shower room 1



Figure 49 shower room 2

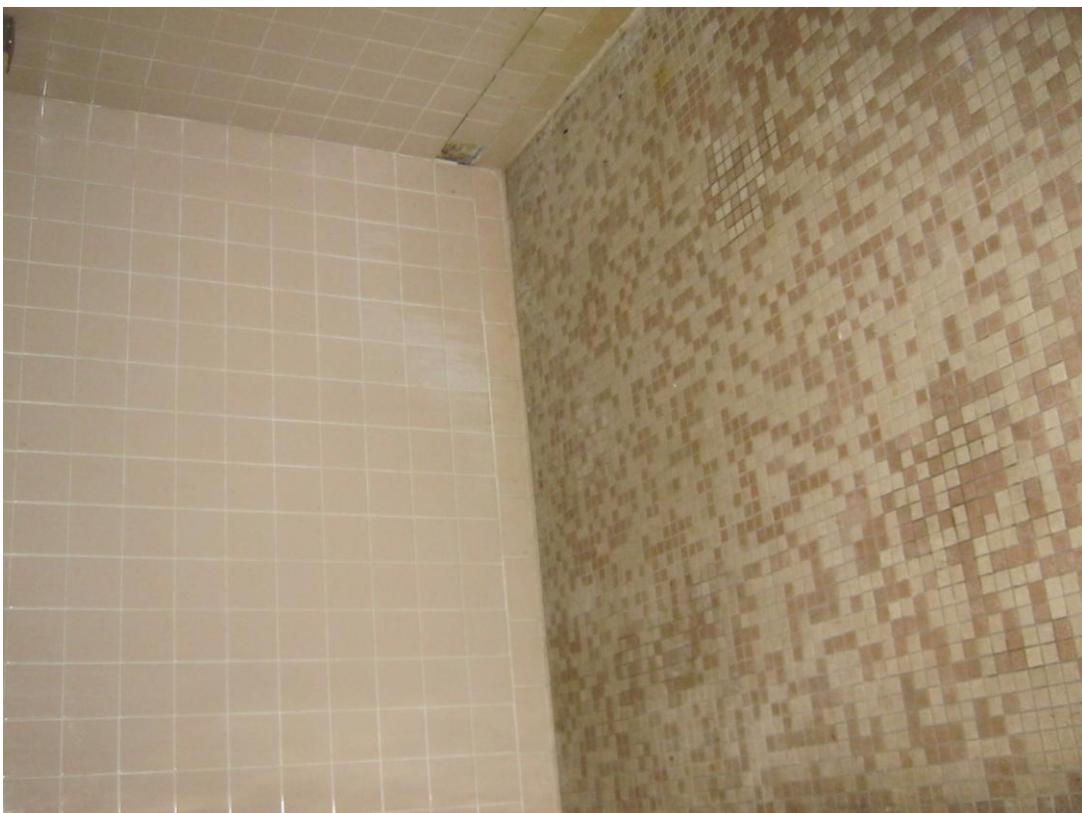


Figure 50 shower room 3



Figure 51 shower room floor tile



Figure 52 vault room ceiling damage



Figure 53 vault room floor damage

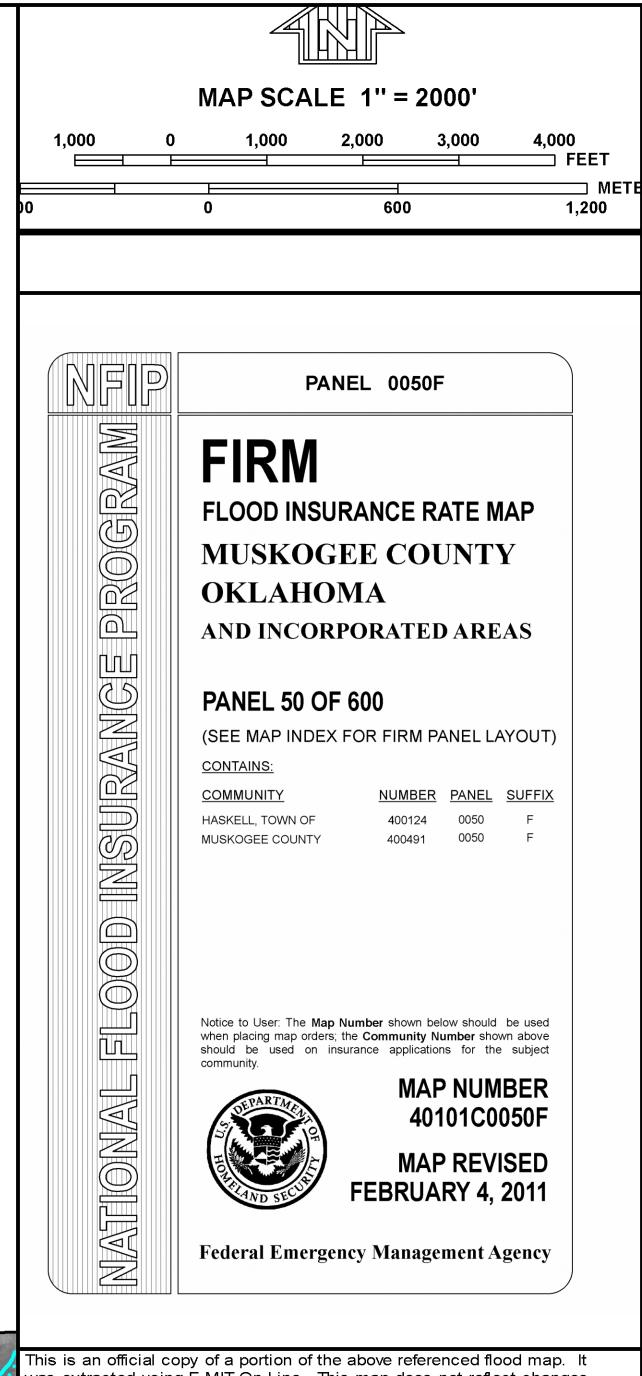
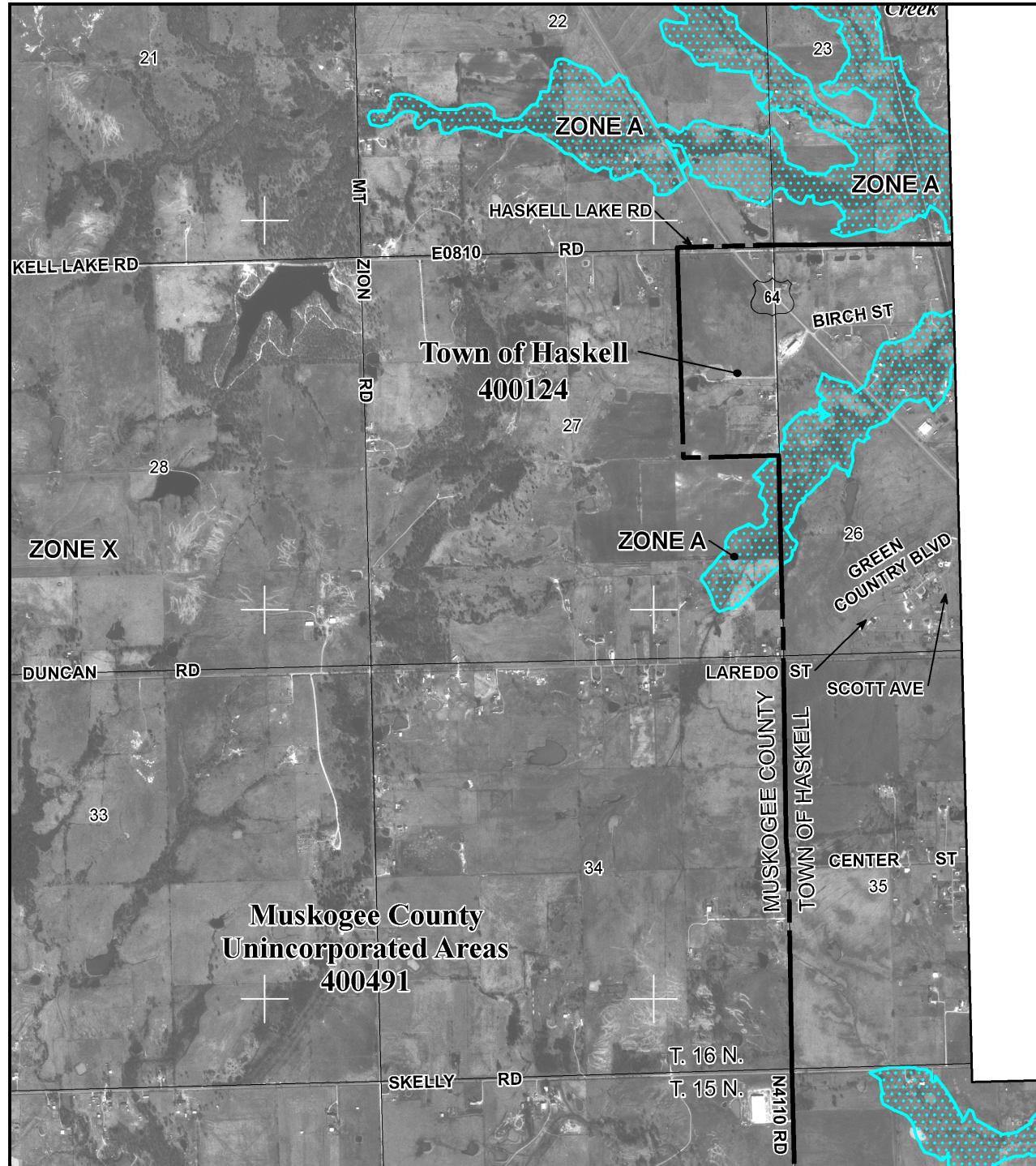


Figure 54 vault room wall damage 1



Figure 55 vault room wall damage 2

F. FEMA Flood Zone Map



This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msfc.fema.gov](http://www.msfc.fema.gov)

G. Memorandum of Agreement between Oklahoma Department of Environmental Quality and  
the Town of Haskell

*Phase I TBA*

*Haskell Armory  
Haskell, Oklahoma*

**MEMORANDUM OF AGREEMENT  
BETWEEN  
THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY AND  
THE TOWN OF HASKELL**

**1. PURPOSE:** The purpose of this Memorandum of Agreement (MOA) is to establish a mutual framework governing the respective organizational relationships, responsibilities, and activities between the Oklahoma Department of Environmental Quality (DEQ) and the Town of Haskell. This agreement is primarily for occupancy and access to the local armory building before and during limited remediation. The areas of responsibility and relationships presented herein provide the concept under which the program will be executed.

**2. BACKGROUND:** The Oklahoma Military Department (OMD) transferred title to its armory building at 1600 NW Haskell Blvd to Haskell for public purpose use. There is a strong likelihood that the building contains asbestos and/or lead based paint. If an indoor firing range is located in the building, high concentrations of lead will be present. The DEQ plans to confirm the presence of hazards using sampling and analysis and to abate the asbestos, abate the lead based paint, and remediate the firing range.

**3. RESPONSIBILITIES OF THE PARTIES:** The following paragraphs identify responsibilities of the parties under this MOA:

Haskell's Responsibilities:

- Provide keys and access to DEQ and its contractors as needed to evaluate and remediate building;
- Restrict occupant's use/presence in the building before and during remediation, as requested. This could include removing equipment, vehicles and other items that may be in the way of cleanup activities; and
- Coordinate with DEQ during the remediation process.

The DEQ's Responsibilities:

- Provide regular progress reports to the Town of Haskell

- Mitigate hazards to remedial goals with minimal use restrictions;
- Supply the Town of Haskell with a final report of all DEQ activities;
- File mandatory Notice of Remediation, i.e. deed notice;
- Notify the Town of Haskell of ongoing operations and maintenance issues, if any; and
- Perform armory transfer ceremony, if appropriate

#### **4. BUILDING USE RESTRICTIONS BEFORE CLEANUP**

- No access to or use of the indoor firing range, if one is located there;
- No residential use;
- No use as a child occupied or elder care facility.
- No use of the property without DEQ approval.

**5. RESPONSIBILITY FOR COSTS:** The DEQ is responsible for costs associated with site characterization and remediation of the armory building. The DEQ is not responsible for costs associated with insuring, maintenance and mowing of the property. The DEQ is not responsible for structural issues, replacement of roofing systems, mold issues, or building security.

**6. PUBLIC INFORMATION:** The Town of Haskell is generally responsible for all public information. However, the DEQ may make public announcements and respond to all inquiries relating to the characterization and remediation of the building. The Town of Haskell and the DEQ shall make their best efforts to give the other party advance notice before making any public statement regarding work contemplated, undertaken, or completed pursuant to this MOA. DEQ will prepare a press release in advance of the armory ceremony, if one is held.

**7. COMMUNICATIONS AND COORDINATION REPRESENTATIVES:** To provide consistent and effective communication between the DEQ and the Town of Haskell, each party shall appoint a principal representative to serve as its central point of contact on matters relating to this MOA.

For the DEQ:

Dustin Davidson  
Project Manager  
Box 1677, OkC, OK 73101-1677  
405-702-5100  
[dustin.davidson@deq.ok.gov](mailto:dustin.davidson@deq.ok.gov)

For the Town of Haskell: Duane Points  
Town Administrator  
P.O. Box 9, Haskell OK 74436  
918- 482-3933  
[townofhaskell@valornet.com](mailto:townofhaskell@valornet.com)

**8. MISCELLANEOUS:** This MOA shall not affect any pre-existing or independent relationships or obligations between the parties.

**9. EFFECTIVE DATE:** This Agreement becomes effective upon the date of the signature of the Executive Director of the DEQ and will remain in effect until the armory building has been remediated and released for occupancy by the DEQ.

**10. ACCEPTANCE OF AGREEMENT:** The parties acknowledge and agree that they have read the Agreement and that they accept the responsibilities with which they are charged. The Town of Haskell agrees to comply with the building use restrictions before cleanup and understands that failure to comply with said restrictions or failure to adhere to the responsibilities enumerated in this Agreement may result in delayed remediation.

Steve Ford  
Mayor  
Town of Haskell

12-15-10

Steven A. Thompson  
Executive Director  
Department of Environmental Quality

## H. Deeds

*Phase I TBA*

*Haskell Armory  
Haskell, Oklahoma*

61994

ORDERED NUMBER

# WARRANTY DEED

Corporation Form

Know All Men by These Presents:

That the Town of Haskell

a corporation duly organized and existing under and by virtue of the laws of the State of Oklahoma, whose principal place of business is in Muskogee

County, State of Oklahoma, party of the first part, in consideration of the

sum of Ten and no/100 DOLLARS (\$ 10.00 )

and other valuable considerations, in hand paid, the receipt of which is hereby acknowledged, does hereby Grant, Bargain, Sell and Convey unto Oklahoma Military for the State of Oklahoma

of County, State of Oklahoma, part V

of the second part, the following described real property and premises situate in Muskogee

Muskogee County, State of Oklahoma, to-wit:

A portion of the West Half ( $\frac{1}{2}$ ) of Section 26, Township 16 North, Range 15 East, lying West of the Texas and Pacific Railroad right-of-way and East of U.S. Highway #64, more particularly described as follows:

Commencing at a point on the East line of said West half of Section 26, said point being 2,366.02 feet North of the Southeast corner of said West half, and on the West line of the Texas and Pacific Railroad right-of-way; thence N.  $11^{\circ}37'09''$  W. along said right-of-way line a distance of 392.00 feet to the POINT OF BEGINNING; thence due West a distance of 676.01 feet to the Easterly right of way line of Highway #64; thence N.  $42^{\circ}55'59''$  W. along said Easterly right of way line a distance of 512.85 feet; thence due East a distance of 948.13 feet to the Westerly right of way line of the Texas and Pacific Railroad; thence S $11^{\circ}37'09''$  E. along said right of way line a distance of 383.34 feet to the point of beginning.

together with all the improvements thereon and appurtenances thereunto belonging and warrant the title to the same.

TO HAVE AND TO HOLD said described premises unto the said party of the second part, its heirs and assigns forever free, clear and discharged of and from all former grants, charges, taxes, judgments, mortgages and other liens and encumbrances of whatsoever nature.

IN WITNESS WHEREOF, the said party of the first part hereto has caused these presents to be signed in its name by its President, its corporate seal affixed, and attested by its Secretary at Haskell,

Oklahoma, this 7th day of August, 1978.



*William Frank Polk* President

Attest: *Patsy Galtier* Secretary

STATE OF OKLAHOMA  
COUNTY OF Muskogee

SS:

CORPORATION ACKNOWLEDGMENT  
Oklahoma Form

Before me, the undersigned, a Notary Public, in and for said County and State on this 7th day of August, 1978, personally appeared *William Frank Polk*, to me known to be the identical person who subscribed the name of the maker thereof to the foregoing instrument as its President and acknowledged to me that he executed the same as his free and voluntary act and deed and as the free and voluntary act and deed of such corporation, for the uses and purposes therein set forth.

Given under my hand and seal of office the day and year last above written.

My commission expires 1-23-79 *Angie Riddle* Notary Public

This Space Reserved for Filing Stamp

State of Oklahoma, Muskogee County  
Heredby certify that this instrument was  
Filed for Record in my Office.

AT 3:30 P.M.

AUG 16 1978

Vol 1507 PAGE 184

and Recorded in Book *Judy Kirk, County Clerk*  
*Excellence Rockfries Deputy*

## QUITCLAIM DEED

KNOW ALL MEN BY THESE PRESENTS:

That the State of Oklahoma, acting by and through the Oklahoma Military Department by its Adjutant General, Major General Myles L. Deering, a body corporate and politic and instrumentality of the State of Oklahoma, Grantor, in consideration of the sum of One and No/100 dollars and other valuable consideration in hand paid, the receipt and sufficiency of which are hereby acknowledged, do hereby quitclaim, grant, bargain, sell and convey unto **Town of Haskell, Oklahoma**, Grantee, the following described real property in the premises lying and situated in County of Muskogee, and State of Oklahoma as follows:

**A portion of the West half (W1/2) of Section 26, Township 16 North, Range 15 East, lying West of the Texas and Pacific Railroad right of way and East of U.S. Highway #64, more particularly described as follows:**

Commencing at a point on the East line of said West half of Section 26, said point being 2,366.02 feet North of the Southeast corner of said West half, and on the West line of the Texas and Pacific Railroad right-of-way; thence N. 11°37'09" W. along said right-of-way line a distance of 392.00 feet to the POINT OF BEGINNING; thence due West a distance of 676.01 feet to the Easterly right of way line of Highway #64; thence N. 42°55'59" W. along said Easterly right-of-way line a distance of 512.85 feet; thence due East a distance of 948.13 feet to the Westerly right of way line of the Texas and Pacific Railroad; thence S11°37'09" E. along said right of way line a distance of 383.34 feet to the point of the beginning.

together with the improvements thereon and appurtenances thereunto belonging.

---

**NOTICE: THE ABOVE DESCRIBED PROPERTY MAY HAVE BEEN CONTAMINATED WITH LEAD, ASBESTOS AND OTHER CONTAMINANTS.**

---

**TO HAVE AND TO HOLD** unto the Grantee, its successors, and assigns for so long as said real property is used for a public purpose as required for this transfer in accordance with title 44, section 233.3(B) of the Oklahoma Statutes.

Signed and delivered this 9 day of December 2010.

STATE OF OKLAHOMA

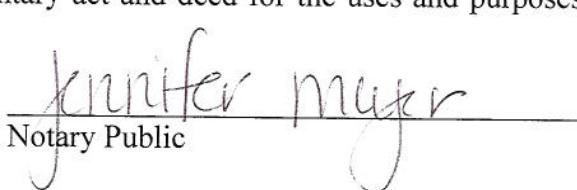
By:

  
**Major General Myles L. Deering,  
Adjutant General of the State of Oklahoma**

**ACKNOWLEDGMENT**

STATE OF OKLAHOMA )  
                      )  
                      ) ss  
COUNTY OF OKLAHOMA )

Before me, Jennifer Meyer in and for this state, on this 1 day of December, 2010, personally appeared Major General Myles L. Deering, as Adjutant General of the State of Oklahoma, to me known to be the identical person who executed the within and foregoing Quitclaim Deed, and acknowledged to me that he executed the same as free and voluntary act and deed for the uses and purposes therein set forth.

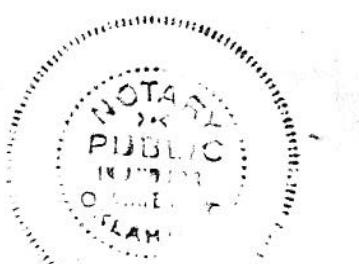
  
\_\_\_\_\_  
Notary Public

My Commission Expires:

1/23/12

My Commission Number:

040661685



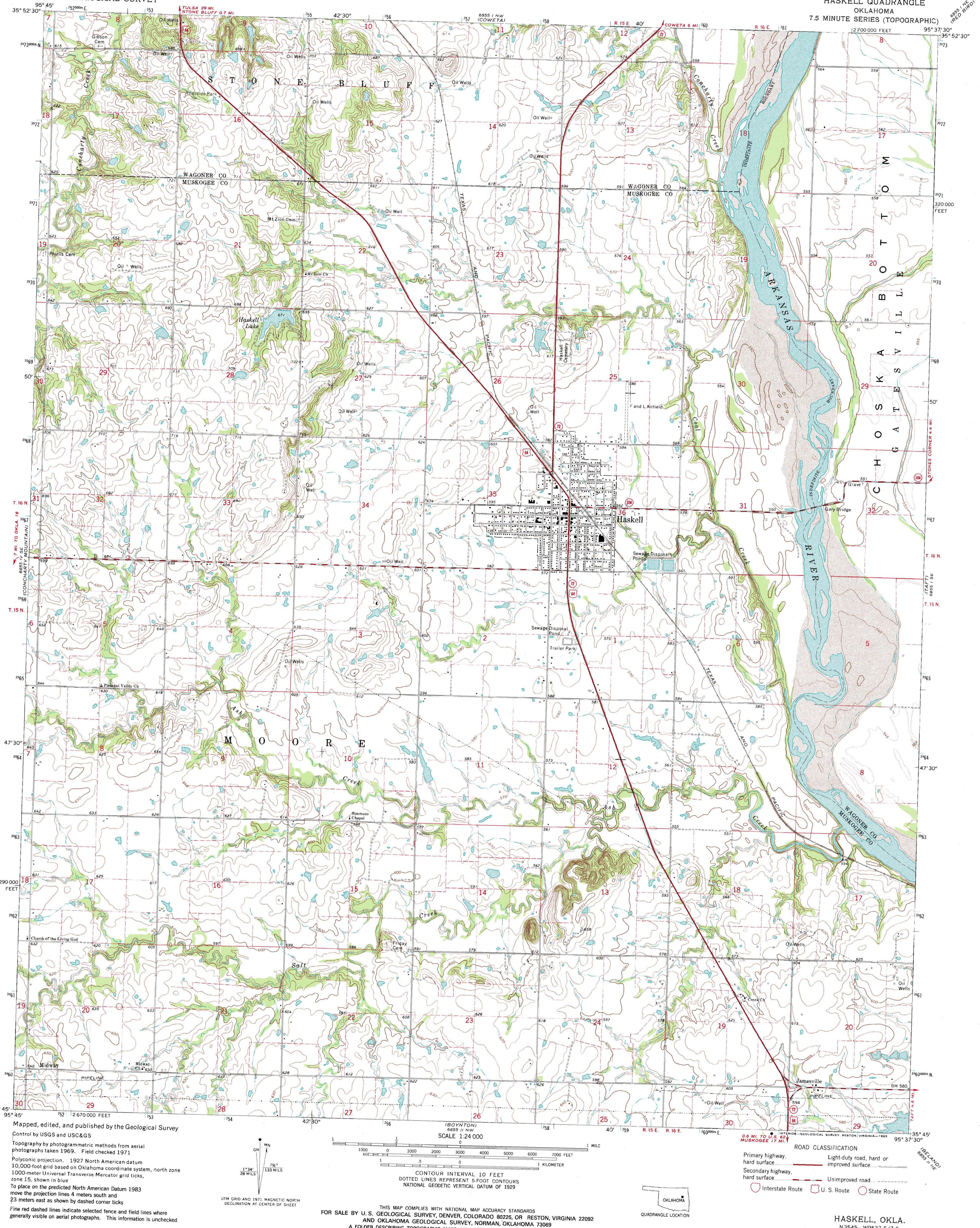
## I. Qualifications of Environmental professionals

1. Heather Mallory - Heather Mallory holds a Bachelors and Masters Degree in Environmental Science from the University of Oklahoma. Mrs. Mallory has nine years experience in environmental sampling and remediation. She is an Environmental Programs Specialist with the Land Protection Division of the Oklahoma Department of Environmental Quality. Her responsibilities include: project management of various Voluntary Cleanup sites across the state, NEPA coordinator for the Tar Creek voluntary buyout of residents, conducting and reviewing Targeted Brownfield Assessments, serving on agency-wide GIS policy making committee, and training DEQ Land Protection Division staff on GPS receivers.
2. Rachel Francks – Rachel Francks holds a Bachelors Degree in Geography from the University of Oklahoma. Ms. Francks has 6 months of experience in environmental sampling and remediation. She is an Environmental Programs Specialist with the Land Protection Division of the Oklahoma Department of Environmental Quality. Her responsibilities include: project management of various Brownfields and Voluntary Cleanup site across the state, QAPP reviewer, and conducting and reviewing Targeted Brownfield Assessments.

J. USGS Topographical Map Muskogee County

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

HASKELL QUADRANGLE  
OKLAHOMA  
7.5 MINUTE SERIES (TOPOGRAPHIC)

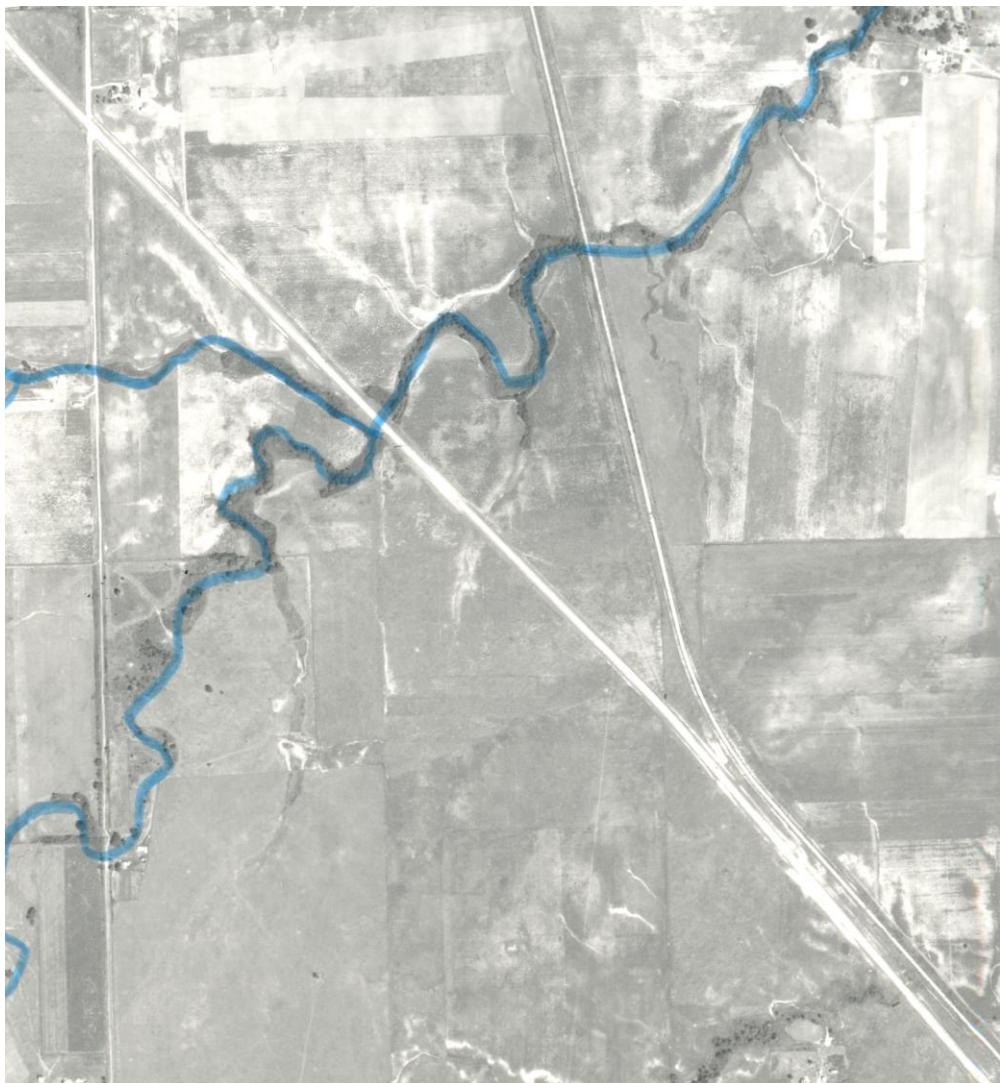


HASKELL, OKLA.  
N3545-W9537.5-7.5

1971

AMS 6855 I SW-SERIES V883

K. Aerial Photographs



**Figure 56 Haskell Armory 1941 Aerial Photo**

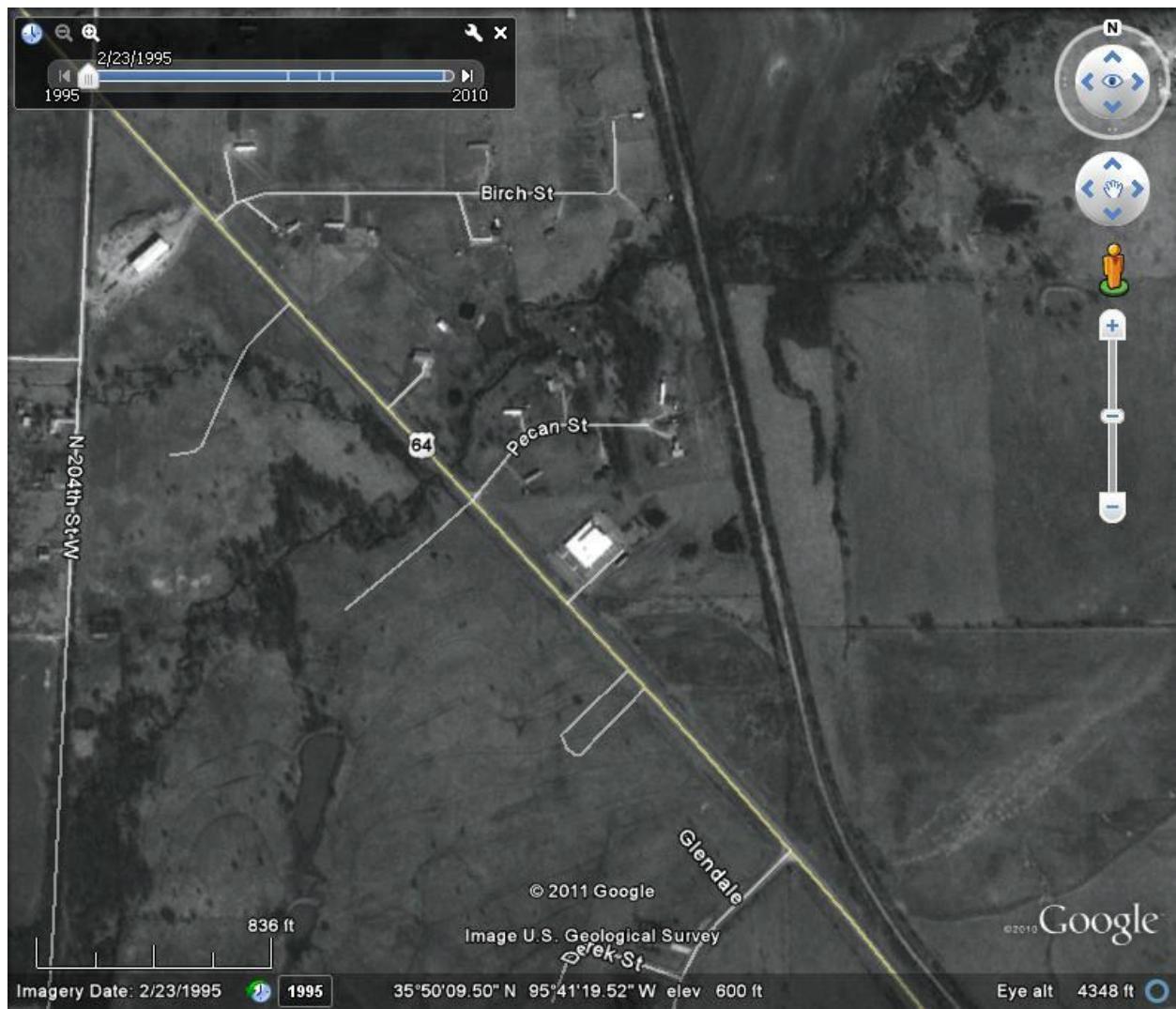


Figure 57 Haskell Armory 1995 Google Earth Image

Phase I TBA

Haskell Armory  
Haskell, Oklahoma

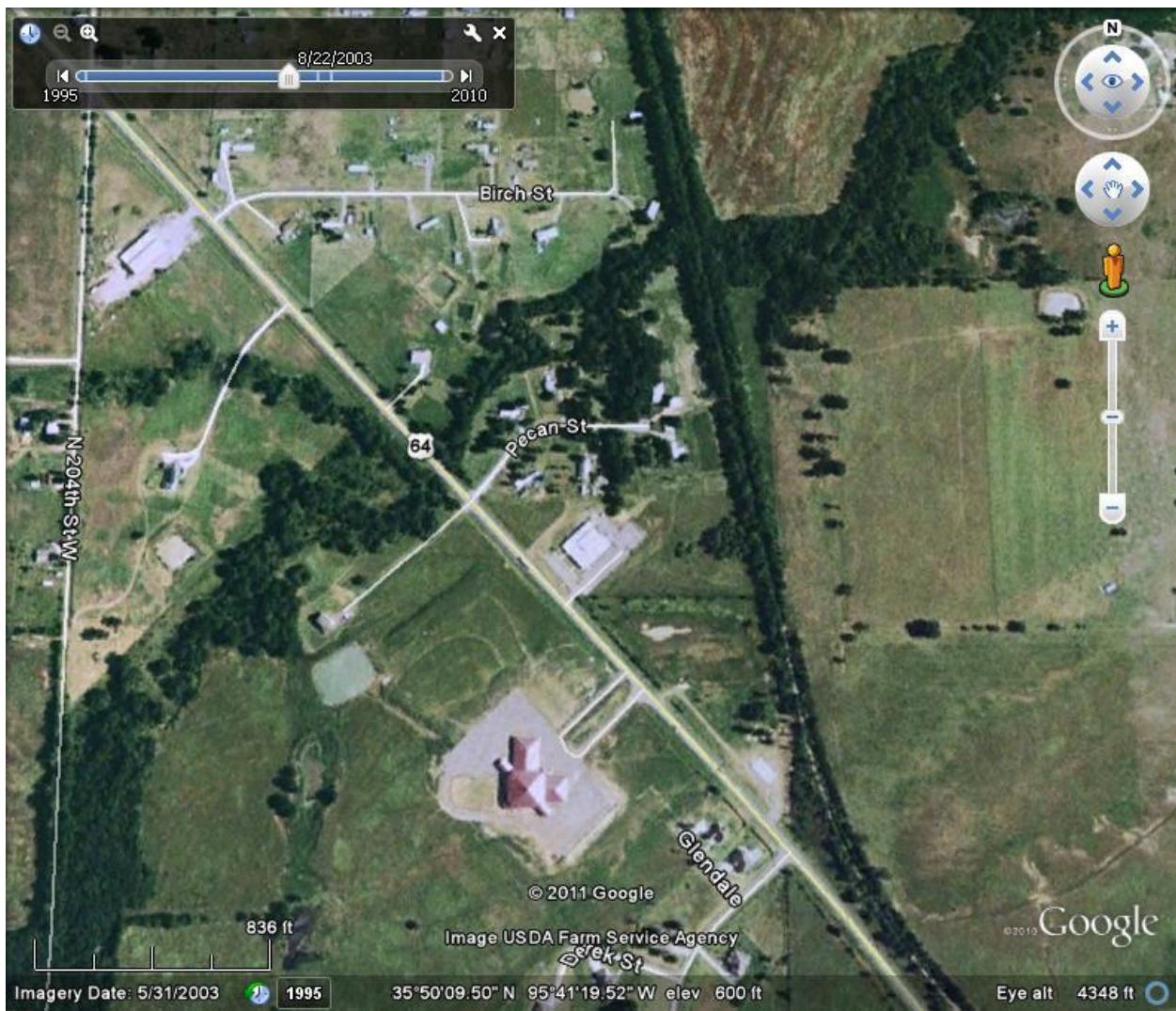


Figure 58 Haskell Armory 2003 Google Earth Image

Phase I TBA

Haskell Armory  
Haskell, Oklahoma

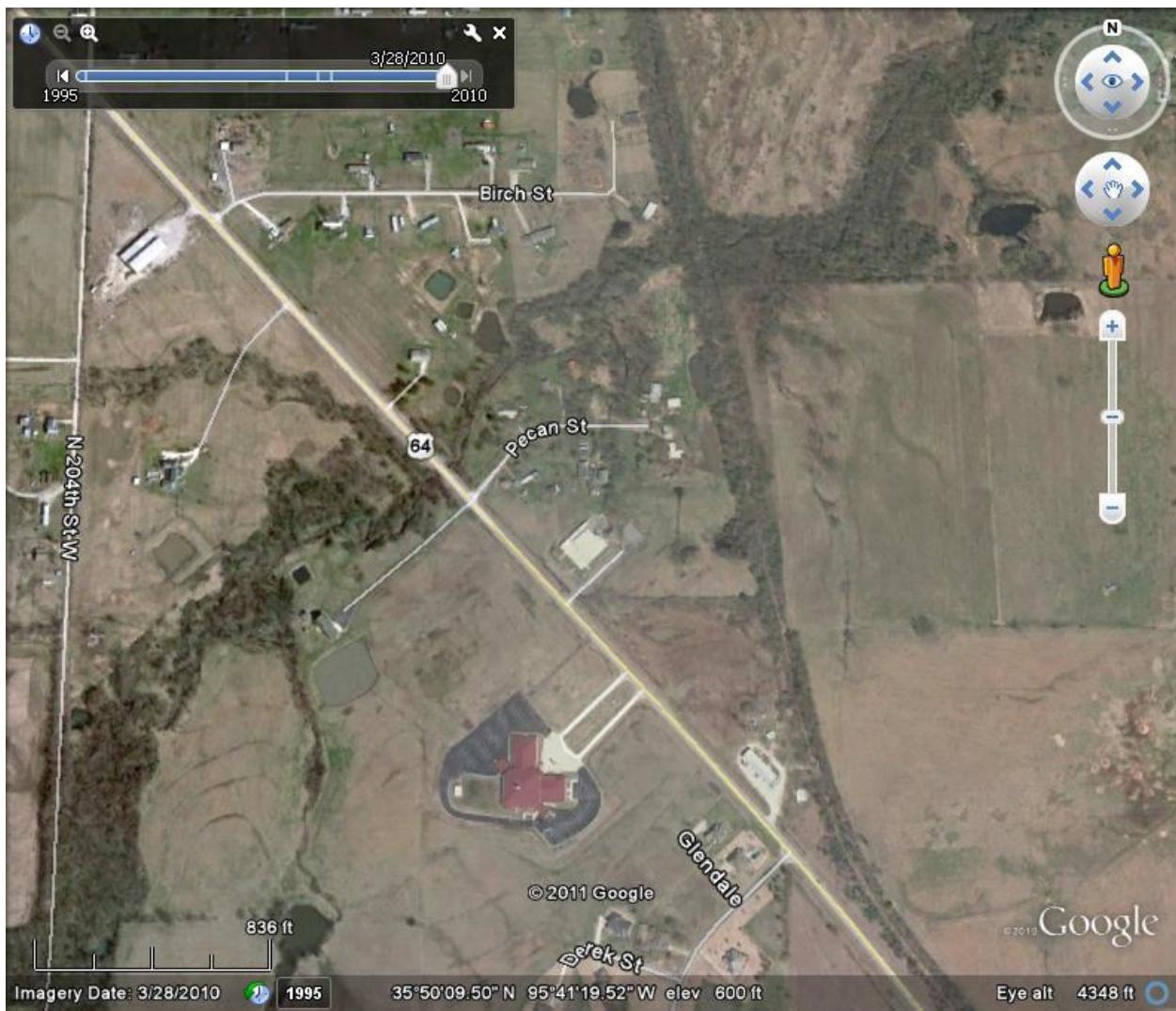


Figure 59 Haskell Armory 2010 Google Earth Image

## **Background and Disclaimer**

The purpose of an environmental site assessment is to identify actual or potential “recognized environmental conditions” that may result in liability or land use restrictions. The ASTM Phase I Environmental Site Assessment E 1527 – 05 is the minimum standard for environmental due diligence in the commercial real estate industry and meets the standard for All Appropriate Inquiry under the Small Business Liability Relief and Brownfields Revitalization Act of 2002. A diligent effort in accordance with generally accepted good commercial and customary standards and practices was undertaken to identify the “recognized environmental conditions” that might affect the redevelopment project. However, the identification of old hazardous waste sites is an evolving process; therefore, DEQ cannot state with absolute certainty that no other potential hazardous waste sites are located in the area. In no event shall the DEQ or its employees be liable for any damages, injury, loss, cost or expense whatsoever arising in connection with the use or reliance on the information contained in this report, except as otherwise provided by law.