

# TARGETED BROWNFIELD ASSESSMENT

For

**Oklahoma Army National Guard  
Former Seminole Armory  
Seminole, Oklahoma**

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

Prepared by:



December 10, 2010

*Prepared for:*

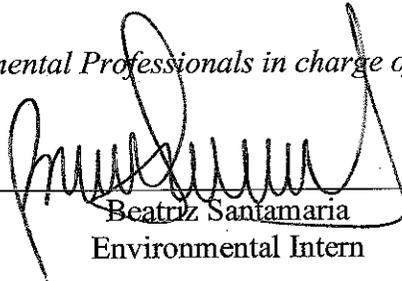
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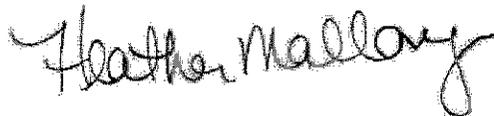
I declare that to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of this part. I have specific qualifications based on education training, and experience to assess a property of the nature, history and setting of the 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.

*Environmental Professionals in charge of the project:*



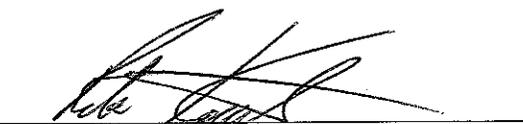
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*Background and Disclaimer:* The purpose of an environmental site assessment is to identify actual or potential “recognized environmental conditions” that may result in liability or land use restrictions. The ASTM Phase I Environmental Site Assessment 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.

## Table of Contents

|        |   |    |
|--------|---|----|
| 1.0    | EXECUTIVE SUMMARY .....   | 6  |
| 2.0    | INTRODUCTION .....  | 7  |
| 2.1    | Purpose.....  | 7  |
| 2.2    | Detailed Scope-of-Services .....  | 8  |
| 2.3    | Significant Assumptions .....   | 8  |
| 2.4    | Limitations and Exceptions.....   | 8  |
| 2.5    | Special Terms and Conditions.....   | 9  |
| 3.0    | SITE CHARACTERIZATION AND HISTORY .....   | 9  |
| 3.3    | Location and Legal Description .....  | 9  |
| 3.4    | Site and Vicinity Characterization .....  | 12 |
| 3.5    | Description of Structures, Roads, and Other Improvements.....   | 12 |
| 3.6    | Owner, Property Manager, and Occupant Information.....  | 13 |
| 3.7    | Information Reported by User Regarding Environmental Lien or Specialized Knowledge<br>or Experience ..... | 13 |
| 3.8    | Commonly Known or Reasonably Ascertainable Information .....  | 13 |
| 3.9    | Valuation Reduction for Environmental Issues .....  | 13 |
| 3.10   | Current Use of the Property .....   | 13 |
| 3.11   | Past Use of the Property .....  | 13 |
| 3.9.1  | Review of Aerial Photographs.....   | 13 |
| 3.9.2  | Fire Insurance Maps .....   | 14 |
| 3.9    | Current and Past Uses of Adjoining Properties.....  | 15 |
| 3.11   | Environmental (Physical) Setting.....   | 15 |
| 3.11.1 | Surface Water Characteristics.....  | 15 |
| 3.11.2 | Subsurface Geological Characterization .....  | 15 |
| 3.11.3 | Ground Water Characteristics .....  | 16 |
| 3.11.4 | Air Characteristics .....   | 16 |
| 4.0    | RECORDS REVIEW.....   | 16 |
| 4.1    | Federal National Priorities List (NPL).....   | 17 |
| 4.2    | Federal CERCLIS List .....  | 17 |
| 4.3    | Federal RCRA CORRACTs List .....  | 17 |
| 4.4    | Federal RCRA non-CORRACTS TSD List.....   | 17 |
| 4.5    | Federal RCRA Generators List .....  | 17 |
| 4.6    | Federal ERNS List .....   | 18 |
| 4.7    | Federal Institutional Control/Engineering Control Registries .....  | 18 |
| 4.8    | State-Equivalent NPL.....   | 18 |
| 4.9    | State-Equivalent CERCLIS.....   | 18 |
| 4.10   | State Landfill and / or Solid Waste Disposal Sites.....   | 18 |
| 4.11   | State Leaking UST List.....   | 19 |
| 4.12   | State Registered UST Sites .....  | 19 |
| 4.13   | State Institutional Control/Engineering Control Registries .....  | 20 |
| 4.14   | State Voluntary Cleanup Sites.....  | 20 |

|      |  |    |
|------|--|----|
| 4.15 | State Brownfield Sites.....  | 20 |
| 4.16 | Oil and Gas Records.....   | 20 |
| 5.0  | SITE RECONNAISSANCE AND INTERVIEWS.....  | 21 |
| 5.1  | Methodology and Limiting Conditions.....   | 21 |
| 5.2  | General Site conditions.....   | 22 |
| 5.2  | External Observations.....   | 24 |
| 5.3  | Internal Observations.....   | 24 |
| 5.4  | Interviews.....  | 25 |
| 6.0  | FINDINGS.....  | 25 |
| 7.0  | OPINION AND RECOMMENDATIONS.....   | 27 |
| 8.0  | DATA GAPS.....   | 27 |
| 9.0  | CONCLUSIONS.....   | 27 |
| 10.  | ADDITIONAL SERVICES.....   | 28 |
| 11.  | DEVIATIONS.....  | 28 |
| 12.  | REFERENCES.....  | 28 |
| 13.  | APPENDICES.....  | 29 |
|      | Appendix A Site Map and Topographic Map  |    |
|      | Appendix B Sanborn Fire Insurance Maps   |    |
|      | Appendix C Aerial Photographs  |    |
|      | Appendix D Flood Insurance Rate Map  |    |
|      | Appendix E Oil and Gas Records   |    |
|      | Appendix F Site Photographs  |    |
|      | Appendix G Site Visit Checklist  |    |
|      | Appendix H Request Letter for a Targeted Brownfield Assessment   |    |
|      | Appendix I Qualification(s) of Environmental Professionals   |    |
|      | Appendix J Location and Legal Description  |    |
|      | Appendix K ERNS Data   |    |
|      | Appendix L Oklahoma Corporation Commission Tank Removal and Closure Report<br>For 1-1000 Gallon Underground Storage Tank |    |

## 1.0 EXECUTIVE SUMMARY

On September 9, 2010, Beatriz Santamaria of the DEQ performed site reconnaissance of the Seminole Armory located at 600 E Strothers Ave, Seminole, Oklahoma, as part of a Targeted Brownfield Assessment (TBA). The subject property is situated next to the American Legion Park in Seminole. 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:

- Historic recognized environmental conditions (REC) include the old, abandoned, potentially unplugged oil wells.
- The former Seminole Armory was built in 1953. The land for the building was deeded by the American Legion to the State of Oklahoma, on October 12, 1953, for benefit of the Oklahoma National Guard. The subject property is currently owned by the State of Oklahoma. The armory is currently owned by the State of Oklahoma and will be conveyed to the American Legion prior to cleanup activities. A MOA will be set in place between the American Legion and the DEQ. Once cleanup activities have occurred, a notice of remediation and easement will be filed in the Seminole County Courthouse by the DEQ.
- 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 cleanup 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).
- The property formerly contained a 1,000 gallon underground storage tank (UST) that was removed August 29, 1997. Soil samples collected below the fuel island were above the OCC action levels for TPH and ethylbenzene with 1380mg/k and 20 mg/kg, respectively. The former UST and associated contamination constitutes a historically recognized environmental condition (HREC).
- Adjoining properties consist of baseball fields and undeveloped land. Historical aerial photographs show parks surrounding the subject property.
- Sanborn Fire Insurance maps showed that the subject property was vacant land before the armory was built. A lake surrounded the vacant land between 1933 and 1949. Adjacent properties consisted of undeveloped areas and a commercial sector. Sanborn maps revealed that a National Guard Armory occupied a small office space on E Broadway Street near the intersection of Main Street. This property is separate from the property being investigated in this Targeted Brownfield Assessment.
- 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 active or archived Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) site listings.

- Thirty-one underground storage tank sites were found within a ½ mile radius of the subject property. The UST sites are located east, west, southwest, and northwest of the subject property. The closest USTs to the subject property are located within one or two blocks from the subject property and are listed as permanently out of use. It is unknown if those tanks have been removed. Of the thirty-one USTs, four sites have current and historic leaking underground storage tank cases.
- 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.
- Pole mounted transformers, in good condition without any leaks, are located around the armory building. It is unknown if these transformers contain PCBs. Fluorescent lighting ballasts are located throughout the building. The lighting ballasts are all in good condition. It is unknown if the lighting ballasts contain PCBs. 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. 1) with the U.S. Environmental Protection Agency (EPA) conducted a Targeted Brownfield Assessment of a property located 600 E Strothers Ave, Seminole, 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 American Legion 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. 2), as provided in the Small Business Relief and Brownfield’s Revitalization Act of 2002 (Public Law 107-118, Subtitle B – Ref. 3). 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 American Legion owning the property. 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 1953, the property was vacant land owned by the neighboring American Legion. There has been no oil and gas exploration on the property according to Oklahoma Corporation Commission records.

Since the building was constructed in 1953, the building is likely to contain asbestos containing materials (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. Pipe wrap and suspect floor tile were observed in the building during the site reconnaissance conducted on September 9, 2010. It is also likely that the building contains lead-based paint. The DEQ plans to have a lead-based paint, lead dust 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 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 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 Seminole, 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, soil, 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 American Legion 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**

### **3.3 Location and Legal Description**

The subject property is located in the east quadrant of E Strother Avenue and N Main Street in Seminole, Oklahoma. This property consists of approximately 1.68 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 the Northwest Quarter (NW/4) of the Northwest Quarter (NW/4) of Section 27, Township 9N, and Range 6E. The armory building's legal location is described as 1796 ft East and 33 ft South of NW corner and 225 ft South, 325 ft East, 225 ft North and 325 ft West to the point of beginning of original plat to the City of Seminole, Seminole County, State of Oklahoma.

Records at the Seminole 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 American Legion and deeded to the State of Oklahoma for the purpose of building a Oklahoma National Guard armory in 1953. Prior to 1953 the property was privately owned by several individuals. The armory is currently owned by the State of Oklahoma and will be conveyed to the American Legion prior to cleanup activities. A Memorandum of Agreement (MOA) will be set in place between the American Legion and the DEQ. Once cleanup activities have occurred, a notice of remediation and easement will be filed in the Seminole County Courthouse.

Seminole County Courthouse Records showed the following history on the property. See Appendix C for copies of these documents. All documents reviewed at the county courthouse are located in Appendix J.

- On July 1, 1912 the NW quarter of the NE quarter and the NE quarter of the NW quarter of Section 27, Township 9N, Range 6E of the Indian Base and Meridian were sold to Maria Jackson by Principal Chief of Seminole Nation. Warranty Deed (WD).
- On July 9, 1915 the west half of the NE quarter and the NE quarter of the NW quarter of Section 27, Township 9N, Range 6E of the Indian Base and Meridian were sold to W.H. Lenfesty by Maria Jackson. WD
- On August 02, 1915 the west half of the NE quarter and the NE quarter of the NW quarter of Section 27, Township 9N, Range 6E of the Indian Base and Meridian were sold to W.H. Lenfesty by Maria Jackson. WD
- On September 02, 1915 the west half of the NE quarter and the NE quarter of the NW quarter of Section 27, Township 9N, Range 6E of the Indian Base and Meridian were sold to Maria Jackson by W.H. Lenfesty. Quick Claim Deed (QCD).
- On December 18, 1915 the NW quarter of the NE quarter and the NE quarter of the NW quarter of Section 27, Township 9N, Range 6E of the Indian Base and Meridian were sold to G.E. Presley by James Carter guardian of Maria Jackson a minor.
- On February 1, 1916 the NW quarter of the NE quarter and the NE quarter of the NW quarter of Section 27, Township 9, and range 6E containing 80 acres also lot 1 to 14 inclusive in block 1 and lots 1 to 4 inclusive in block 4 to Batey Addition to Incorporated town, also beginning at the northeast corner of lot 1 block 1 to said Batey Addition above named running thence east 767 feet, thence south 685 feet thence west 767 feet to northeast corner of lot 13 in block 4 Batey Addition above described thence north 685 feet to point of beginning all being in the NW quarter of the NW quarter of Section 27, Twp. 9N, Range 6E containing 95 acres were sold to W. A. Bishop by G.E. Presley and Amy Presley. WD
- On November 27, 1918 the NE quarter of the NW quarter and the NW quarter of the NE quarter of Section 27, Township 9, and range 6E were sold to W. B. Gray by W.A. Bishop and Almedia Bishop. WD
- On November 19, 1919 the NE quarter of the NW quarter of Section 27, Township 9, range 6E were sold to W. C. Reed by W. B. Gray and Cora Gray. WD
- On October 8, 1924 the NE quarter of the NW quarter of Section 27, Township 9, range 6E were sold to Herman A. Bishop by William C. Reed and Willie Reed. WD

- On December 16, 1924 the NE quarter of the NW quarter of Section 27, Township 9, range 6E were sold to Herman A. Bishop by W. B. Gray and Cora Gray. QCD
- On January 14, 1925 the NE quarter of the NW quarter of Section 27, Township 9, range 6E were sold to Homer H. Bishop by Herman A. Bishop and Opal Bishop. QCD
- On February 6, 1925 the NE quarter of the NW quarter of Section 27, Township 9, range 6E were sold to W. A. Bishop by H.H. Bishop and Louis Slover Bishop. QCD
- On February 27, 1925 the NE quarter of the NW quarter and the North half of the SE quarter of the NW quarter of Section 27, Township 9, range 6E were sold to J.G. Berry by the Oklahoma State Bank of Konawa. QCD
- On December 28, 1928 the NE quarter of the NW quarter of Section 27, Township 9, range 6E and the SW quarter of the SW quarter of section 22, Township 9N, Range 6E minus 8 acres in the SW corner of the above described tract of land were sold to W.A. Bishop by the Homer H. Bishop. QCD
- On April 15, 1930 the NW quarter of the NE and the NE quarter of the NW quarter and lots 1 to 28 inclusive in Block 1, Bishop Addition to the City of Seminole, Oklahoma, and a tract of land beginning at the NE corner of Lot 1, Block 1, Bishop Addition above named, running thence due South to the North side of Walnut Street, thence West to the West Bank of the present creek channel where Walnut Street and the present creek intersect, thence along the West bank of the present creek channel to the SE corner of the NW corner of the NW quarter, thence due North to the NW corner of the NE quarter of the NW quarter, thence due west to point of beginning, containing approximately 95 acres, more or less, and the following described land. Beginning at a point 26 feet East and 255 feet South of the NW corner of the SW quarter, of the NE quarter of Section 27, Township 9N, Range 6E, thence East approximately 600 feet to the East line of Grantor's land, thence due North to the North line of the SW quarter of the NE quarter of Section 27, Township 9N, Range 6E, thence West along said North line 575 feet to a point on said North Line 540 feet East of the NW corner of the SW quarter of the NE quarter of section 27, Township 9N, Range 6E, thence in a southeasterly direction 262 feet to point of beginning, containing to and nine tenths (2.9) acres more or less, all situated in Section 27, Township 9N, Range 6E; were sold to City of Seminole by W.A. Bishop.
- On April 10, 1946 starting at point 550 ft East of the Northwest corner, Lot 1, Block 1, Bishop Addition, thence 900 ft East, thence South 750 ft thence, West 900 ft, thence North 750 ft to the point of beginning containing 15 acres more or less were sold to the American Legion by City of Seminole.

- On October 12, 1953 beginning at a point 1796 ft East and 33 ft South of NW corner and 225 ft South, 325 ft East, 225 ft North and 325 ft West to the point of beginning were sold to State of Oklahoma for benefit and use of the Oklahoma National Guard

### **3.4 Site and Vicinity Characterization**

The former Seminole Armory was built in 1953. According to Seminole County land records, the land for the building was deeded by the American Legion to the State of Oklahoma, on October 12, 1953, for benefit of the Oklahoma National Guard (see Appendix C). The subject property is a small tract of land about one acre and a half in size. The subject property is located at 600 E Strothers Ave, Seminole, Oklahoma bound by E Strothers Ave on the north, Armory Drive on the West and E Seminole Ave on the south. The areas where the subject property and adjacent properties are located are best characterized by recreational development and undeveloped land. Undeveloped land surrounds the property to the north and east and the American Legion Park resides to the west and south of the property. A site vicinity map of the subject property can be found in Appendix A and C.

Lead-based paint and asbestos may be present onsite due to the age of the building. Utilities that serve the subject property are CenterPoint Energy for natural gas and the OG&E electric, AT&T provides telephone services, and the City of Seminole provides sewer services to the armory according to Buster Wilcox, facility occupant for the American Legion (Ref.5). According to the Oklahoma Water Resources Board Water Information Mapping System, the subject property is served by the City of Seminole.

A review of the topographical map indicated that the surface elevation of the site is approximately 850 feet above mean sea level. The topographical gradient is to the southeast, toward Magnolia Creek. The Magnolia Creek is located approximately 0.2 miles east of the site. Wewoka Creek is located 0.7 miles south of the subject property. The Magnolia Lake used to surround the property during 1933-1949. However, the subject property was never flooded. Magnolia Lake is reduced in size and resembles a pond and is located to the southwest of the property. The topographical map can be found in Appendix A.

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

The structure of the Armory is in good condition. The roof of the Drill Floor is in excellent condition. According to Buster Wilcox, the Drill Floor roof was replaced. There was only one observed damaged window at the Armory. Roads surrounding the Armory are in good condition. All roads are constructed of asphalt pavement. Adjacent properties, which consist of a park and undeveloped land, are in good 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.

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

The subject property is owned by the State of Oklahoma and is occupied by the American Legion. The DEQ Site Cleanup Assistance Program (SCAP) is in charge of identifying environmental hazards and conducting the cleanup of the Armory. The Military department will transfer ownership of the armory to the American Legion prior to completion of remedial activities.

### **3.7 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.

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

Buster Wilcox, representative of the American Legion, 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.

### **3.9 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.

### **3.10 Current Use of the Property**

The buildings are currently being used as storage by the American Legion and Emergency Management Services (EMS). The office located in the north of the property is currently used by the EMS as an office. A trailer with a boat is stored inside the west building. The rest of the property is vacant land.

### **3.11 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 1938, 1956, 1995, 2003, and 2008 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.

#### 1938 aerial photograph

The 1938 aerial photograph shows the subject property to be near an area of oil and gas production. Five tanks were located southeast of the subject property. The adjoining property to the north was undeveloped. Sanborn maps show the surrounding area to the subject property was developed as the Magnolia Lake. However, the subject property area was not flooded. Commercial buildings were located west of the property.

#### 1956 aerial photograph

The 1956 aerial photograph shows the subject property with two distinct buildings. The tanks that were present on the southeast area of the subject property were removed by 1956. The adjoining property to the north was undeveloped. The areas to the west and south were developed as commercial and residential areas.

#### 1995 aerial photograph

The 1995 aerial photograph shows some changes from the 1956 aerial photograph. There is some residential and commercial development to the east of the subject property. It was also noted a park development north to the subject property. No apparent environmental conditions were noted from the photograph.

#### 2003 aerial photograph

The 2003 aerial photograph shows some changes from the 1995 aerial photograph. The photograph shows commercial development to the northeast of the subject property. No apparent environmental conditions were noted from the photograph.

#### 2008 aerial photograph

The 2008 aerial photograph shows some changes from the 2003 aerial photograph. The west and south areas adjacent to the subject property were developed as baseball fields. The remaining areas were unchanged from the 2003 aerial photograph.

### **3.9.2 Fire Insurance Maps**

Sanborn Fire Insurance maps were viewed and downloaded from the Oklahoma Department of Libraries website (Ref. 6). Sanborn maps of the subject property and adjoining properties were found for 1912, 1925, 1927, 1933, and 1949. All the Sanborn maps are located in Appendix C. The following represents a summary of what was found at the subject property and adjoining properties from each Sanborn map. The Sanborn maps previous to 1933 show no development in the subject property area. However, the Sanborn Map of 1927 shows a Service Station, a Battery service and Auto Repairing Store within 1 mile west to the subject property area. According to the 1933 and 1949 Sanborn Fire Insurance

map, the property area was known as Magnolia Lake. The maps did not indicate the location of any USTs or other environmental concern.

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

Sanborn maps showed that the adjoining properties were formerly residential, commercial or vacant property. Additionally, Sanborn maps showed that the area was formerly surrounded by the Magnolia Lake. An aerial photograph shows the area to the south had oil tanks in 1938.

During the site visit on September 9, 2010, adjoining properties were observed to contain the following. The adjacent properties to the south and west are recreational properties that include several baseball fields. The adjacent area to the north and east are currently undeveloped.

### **3.11 Environmental (Physical) 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 Seminole Armory is located at a surface elevation of approximately 850 feet above mean sea level. The topographical gradient is to the south-southeast, toward Magnolia Creek. Magnolia Creek is located approximately 0.2 miles east of the site. Wewoka Creek is located 0.7 miles south of the subject property.

No surface water bodies are on the subject property or the adjoining properties. According to the 1933 and 1949 Sanborn Fire Insurance map, the property area was known as Magnolia Lake.

According to the Federal Emergency Association, the subject property is in an area outside the 500 year flood plain. According to FEMA (Ref. 15), 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 D.

#### **3.11.2 Subsurface Geological Characterization**

According to the Soil Survey of Seminole County, Oklahoma, the subject property consists mainly of severely eroded Stephenville-Darnell complex soil. Stephenville soils comprise around 80% and are characterized by a slope of 5 to 15 percent, a water table depth of more than 80 inches, and a low available water capacity. Darnell soils comprise 10% of the subject property area of interest and are characterized by a slope of 5 to 15 percent, a water table depth of more than 80 inches, and very low available water capacity. The remaining 10% are comprised by severely eroded Niotaze (4%), Eram (2%), Grainola (2%) and Seminole soils (2%) (Ref. 17).

### **3.11.3 Ground Water Characteristics**

The groundwater aquifer in this area is the Vamoosa Formation and Ada Group. Maximum yield is approximately 50-150 gallons per minute. Water quality of the aquifer is generally fair or poor with high values of total dissolved solids. A study conducted by the Oklahoma geological survey in 1986 found that the aquifer is impacted with brine contamination (Ref. 7). Brine contamination in this aquifer may be a localized event and could be due to rise in the water levels and could be a result from oil exploration. Oklahoma Water resources board states that groundwater aquifers in this area are generally encountered at approximately 500-1000 feet below ground surface. The direction of the hydraulic gradient is generally to the east but locally is toward gaining streams. The direction of the confined area most likely flows west following the homoclinal dip. The shallow groundwater flow is often related to the surface topography. Therefore, the expected shallow groundwater flow direction would be to the south-southeast.

### **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. Buster Wilcox had no knowledge of any air emissions on the subject property (Ref. 5). 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)**

The Environmental Protection Agency (EPA) database was searched for NPL sites near the subject property within the ASTM's recommended search radius of one mile (Ref. 8). The subject property is not a listed NPL site. There are no NPL sites reported within a one-mile radius of the subject property.

There is also an EPA database for Delisted NPL sites, which ASTM requires to be reported within ½ mile of the subject property (Ref. 9). No delisted NPL sites are within the ½ mile search radius.

#### **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. 10). The ASTM's recommended search radius of the subject property for both active and archived CERCLIS sites is ½ mile. No active CERCLIS sites were found within ½ mile of the subject property.

The subject property is not listed on the archived CERCLIS list. TJ's Swap Shop (EPA ID# OKN000607079), located 100 S. Milt Phillips Hwy 99, and Semi Mercury (EPA ID# OKN000606804), located at 12362 North South 353 are the closest archived sites. The status of both of these sites is No Further Remedial Action Planned. A preliminary assessment and site inspection of the TJ's Swap Shop was conducted on March 19, 2010, and was archived May 5, 2010. EPA conducted an Emergency Response at the Semi Mercury facility on July 5, 2007, and the site was archived on July 10, 2007 (Ref. 12).

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

The EPA database for Resource Conservation and Recovery Act (RCRA) facilities subject to corrective action was searched within the ASTM's required minimum distance of one mile of the subject property (Ref. 11). No RCRA CORRACT facility was found within the one-mile radius of the subject property.

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

The EPA database for RCRA facilities not subject to corrective action was searched within the ASTM's required minimum distance of ½ mile of the subject property (Ref. 11). No RCRA non-CORRACT Treatment, Storage and Disposal (TSD) sites are within the ½ mile radius of the subject property.

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

The EPA RCRA Notifiers database was searched for RCRA generators within the ASTM's required minimum search distance of the subject property (Ref. 11). The

minimum distance is the property and adjoining properties. The subject property did not have any RCRA notifiers or generators. However, there were seven facilities found near the subject property. No large quantity generators were reported within the subject property and its adjoining properties.

United Motors located on 1405 N Milt Phillips northwest of the subject property. Seminole Ford Mercury located northwest of the subject property on 2222 N Milt Phillips. The facility is designated as a conditionally exempt small quantity generator. Parks Manufacturing, Inc. located west of the subject property on 711 Boren Blvd. The facilities were found in the database as active small quantity generators.

Arrow Pump and Supply located south of the subject property on 101 N Main. Halliburton Services located east of the subject property on Hwy 270 3M E. Koch Pipeline Co. LP-Olympic located south of the property on 9 Mi East of Seminole Hwy 48. Wal-Mart Supercenter #123 northeast of the subject property located on 1500 E Wrangler Blvd. The facilities were found in the database as active conditionally exempt small quantity generators.

#### **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. 12). 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. The ERNS data is included in Appendix K.

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

There are no known Institutional Controls/Engineering Controls on the subject property according to the representatives of the subject property and a search of county land records.

#### **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**

The DEQ regulates landfills and solid waste disposal sites across the State of Oklahoma (Ref. 13). State landfills and solid waste disposal facilities were searched in the DEQ database within the ASTM required minimum distance ½ mile from the subject property.

No permitted landfills or solid waste disposal facilities are located within the search distance of the subject property.

#### **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 ½ mile of the subject property. Seven LUST sites were found within the ½ mile radius. The following sites are listed and described below.

- The 1<sup>st</sup> National Bank and Trust, located at 201 N Milt Phillips, is southwest of the subject property. The LUST case Facility ID number is 6713035.
- The Former Happy Foods #3, located at 601 N Milt Phillips, is southwest of the subject property. The site was reported on January 17, 1993 and closed on October 19, 1999. The LUST case Facility ID number is 6705317.
- The Former Bowling Oil Co site, located at 700 N Milt Phillips, is west-southwest of the subject property. The site was reported on January 1997 and closed in March 20 of 2009. The LUST case Facility ID number is 6710631.
- The Former Service station, located at 828 Milt Phillips, is west of the subject property. The site was closed on July 25, 2003. The LUST case Facility ID number is 6721142.
- The Biofuels Express #1, located at 401 W Strother, is west of the subject property. The LUST case Facility ID number is 6704054.
- The 420 One Stop, located at 420 N Milt Phillips Ave, is southwest of the subject property. The site was reported on April 29, 1992 and closed on October 25, 1994. The LUST case Facility ID number is 6706612.
- The Zipomatic Auto Repair, located at 914 E Broadway, is south of the subject property. The LUST case Facility ID number is 6702943.

#### **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. Nine registered USTs were found on the adjoining properties. For a list of registered UST sites, see Section 4.11. The subject property formerly contained a 1,000 gallon gasoline UST on the property. The UST was removed August 29, 1997 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 the below the former fuel island and the center of the tank pit. Soil samples collected below the fuel island were above the OCC action levels for TPH and ethylbenzene with 1380 mg/kg and 20 mg/kg, respectively. Soil samples showed no diesel range organics present in the UST excavation. No information regarding the remediation of the contaminated island soil was found. However, the site was closed within prescribed standards by OCC on December 31, 1997. 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 A.

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

The State Institutional Control/Engineering Control Registry is currently under development by the DEQ. There are no known Institutional Control/Engineering Controls in effect for this property.

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

The DEQ Voluntary Cleanup Program (VCP) database was searched for VCP sites within the required ASTM search distance of ½ mile of the Seminole Armory (Ref. 14). No VCP sites are located on or within ½ mile of the subject property.

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

The DEQ Brownfield database was searched for Brownfield sites within the required ASTM search distance of ½ mile of the Seminole Armory (Ref. 14). No Brownfield sites were found within ½ mile of the Seminole Armory.

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

The subject property is located in the NW ¼ NE ¼ NW ¼ of Section 27 T09N R6E. 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 upgradient of the site. The following describes each well record found in adjacent areas. Additional wells near the area are located in Appendix H.

- The **Fee #1** was located in the SW ¼ of the SE ¼ of the NW ¼ of Section 27, Township 09N, and Range 06E. According to the completion record, drilling finished on November 18, 1927. The operator for the well was Crystal Oil. According to the plugging record, plugging was not completed on this site. This well would have been near the subject property when it was in operation. According to the OCC database this well is active, completed and probably producing. However, the OCC could not find any information regarding the

production or closure of the well. There is a possibility that this well was never plugged. In that case, this well is considered a historic REC.

- The **Strothers O D #1** was located in the SE ¼ of the SE ¼ of the NW ¼ of Section 27, Township 09N, and Range 06E. According to the completion report, drilling started on April 27, 1927 and finished on July 22, 1927. The operator for the well was listed as Independent O&G. No plugging records were found for this well. This well would have been very near the subject property when it was in operation. According to the OCC database this well is active, completed and probably producing. However, the OCC could not find any information regarding the production or closure of the well. There is a possibility that this well was never plugged. In that case, this well is considered a historic REC.
- The **Bishop #1** was located in the NE ¼ of the NE ¼ of the NW ¼ of Section 27, Township 09N, and Range 06E. According to the completion report, drilling started on August 17, 1943 and finished on September 05, 1943. According to the plugging record found, plugging was completed on this well on September 09, 1943. The company operating the well at this time was Wood Oil Company. This well would have been very near if not on the subject property when it was in operation.
- The **Gilliland J #1** was located in the NE ¼ of the NW ¼ of the NE ¼ of Section 27, Township 09N, and Range 06E. According to the completion report, drilling started on January 13, 1927, and drilling finished on March 26, 1927. The company operator for the well was listed as The Carter Oil Company. According to the plugging record found, plugging was completed on this well on September 29, 1971. This well would have been very near if not on the subject property when it was in operation.
- The **Gilliland J #2** was located in the SE ¼ of the NW ¼ of the NE ¼ of Section 27, Township 09N, and Range 06E. According to the completion report, drilling started on April 20, 1927, and drilling finished on August 1, 1927. The company operator for the well was listed as The Carter Oil Company. According to the plugging record, plugging was completed on February 25, 1928. The company operating the well at this time was listed as Continental Oil Company. This well would have been located due east of the subject property.

## 5.0 SITE RECONNAISSANCE AND INTERVIEWS

### 5.1 Methodology and Limiting Conditions

A site reconnaissance of the subject property located on the southeast corner of East Strother Avenue and Main Street was performed on September 9, 2010. Beatriz Santamaria and Dustin Davidson of the DEQ met the building occupant of the property, Buster Wilcox (Vice-Commander, American Legion), and Terry Little (Commander,

American Legion) at the property. Mr. Wilcox introduced Santamaria and Davidson to the site and answered questions to the best of his knowledge on the site. Mr. Wilcox and Mr. Little lead Santamaria and Davidson inside the building and gave their 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 Seminole Armory Property is composed of a rock building of approximately 11,216 square feet. The armory does not have an indoor firing range (IFR). It was built in 1953. The building is occupied by the American Legion. The property surrounding the building consists of a grassy area to the north; a baseball field to the west; paved vehicle ramp, a small gravel parking area, and baseball field to the south; and a grassy area to the east. The subject property is in town and paved streets are located to the north and east of the subject property. The following are general site conditions that were evaluated on the property and adjacent properties.

### Aboveground Storage Tanks (ASTs)

The subject property contains a propane tank on site. No ASTs were found on the adjacent properties during the site reconnaissance.

### Landfills and/or Dumping

No landfills, dumping, or disturbed soil was found on the property. There is an empty dumpster onsite. This is accessible from the road and therefore could be a source of future dumping.

### Impoundments

No impoundments were observed at the subject property. However, Sanborn maps showed the subject property used to be part of the Magnolia Lake. No information was found regarding fill brought from other locations to bring the lake up to grade.

### Monitoring Wells

No monitoring wells are present on the property. According to the Oklahoma Water Resources Board well search, performed on August 31, 2010, there are 27 monitoring wells within 1 mile of the subject property. These wells were installed for groundwater monitoring. One of these three wells is located upgradient whereas the rest are downgradient of the subject property. See Appendix A for a map of OWRB wells found within 1 mile of the subject property.

### Disturbed and Stained Soils

No stained soils were observed at the subject property; however minimal soil disturbance was noted.

### Seeps

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

### Chemical Spills

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

### Farm Waste

No farm waste was observed at the subject property.

### Known Pesticide Misapplication

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

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

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

### Petroleum Products and Oil and Natural Gas Exploration

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

### 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 x 9 inches 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 lead-based paint assessment in the

armory. Twelve inch by Twelve inch tiles were found on the first floor in the northeast corner room. The tiles appear to be in good to fair condition and nonfriable. 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.

### Lead

The building most likely contains lead-based paint and lead dust. Surveys for lead-based paint and lead dust throughout the building were conducted by Enercon on October 19, 2010. 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 no IFR in this building, so any lead dust is most likely due to deteriorated lead-based paint. Lead-based paint could be present on doors, door frames, handrails, windows, window bars, wall trim, walls, overhead door frames, and downspouts in various places inside and outside of the building.

### Transformers/PCB Equipment

There were some transformers observed around the subject property. All transformers are in good condition and have no damage. According to Buster Wilcox (Ref. 5), the transformers are owned by the City of Seminole. It is unknown if the transformers contain PCBs. No other Polychlorinated biphenyl (PCB) contamination or other PCB-containing equipment was observed at the site.

Fluorescent lighting ballasts were found throughout the entire building. It is unknown if the ballasts contain PCBs. None of the ballasts appeared to have leaks.

## **5.2 External Observations**

The external observations showed no recognized environmental conditions. The area is composed of a concrete driveway with grass vegetation covering the rest of the site. The area around the building is considered residential area. The east side of the building consists of grass vegetation and a gravel driveway. The south side of the building is vegetated with grass and has a concrete/gravel driveway. The west side of the building represents the entry driveway and it is also vegetated. A radiation sign was observed at the entrance of the building. Samples for radiation products were taken on October 9 by DEQ, however sample results are still pending. No visible indication was observed of where the UST was previously located. Photographs of the external view of the site can be found in Appendix F.

## **5.3 Internal Observations**

The building is currently occupied by the American Legion and was last used by the Oklahoma Army National Guard to support the military mission. The one story building was constructed from native rock in 1953. Before construction of the armory building,

the land was owned by the American Legion and was vacant land. During the site visit on September 9, 2010, small pools of standing water were observed in the south part of the Drill Hall. However, no holes were observed in the roof. No floor drains were noted at that time. Ceiling hung heaters were present in the Drilling Floor ceiling. No chemicals or military equipment were observed on site. A vault was observed and may have served as storage for radioactive material as indicated by a sign posted at the vault door. Photographs of the internal view of the site can be found in Appendix F.

#### **5.4 Interviews**

Buster Wilcox from the American Legion gave a tour of the Armory and provided historical and environmental information about the site. He is the current occupant of the building, has been involved with the armory building for a few years and therefore is a good point of contact for knowledge of the building. He was not aware of any present environmental concerns of the property or adjacent properties. Below is the information obtained from Mr. Wilcox (Appendix F):

- There has been no industrial use of the subject property or surrounding areas in the past.
- Mr. Wilcox knows of no chemical spills on the property. To his knowledge, the only chemicals used at the facility were for housekeeping purposes and automotive maintenance.
- No drums or storage tanks have been present on the property to the knowledge of Mr. Wilcox.
- Mr. Wilcox suggested that oil and gas wells had been present nearby in the past but not currently.
- Hazardous substances may include lead based paint, lead dust and asbestos.
- The American Legion will like to use the building for commercial purposes.

#### **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 Seminole Armory was built in 1953. The land for the building was deeded by the American Legion to the State of Oklahoma, on October 12, 1953, for benefit of the Oklahoma National Guard. The subject property is currently owned by the State of Oklahoma. The armory is currently owned by the State of Oklahoma and will be conveyed to the American Legion prior to cleanup activities. A Memorandum of Agreement (MOA) will be set in place between the American Legion and the DEQ. Once cleanup activities have occurred, a notice of remediation and easement will be filed in the Seminole County Courthouse.
- Historic recognized environmental conditions (REC) are the old, abandoned, potentially unplugged oil wells.

- 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).
- The property formerly contained a 1,000 gallon underground storage tank (UST) that was removed August 29, 1997. Soil samples collected below the fuel island were above the OCC action levels for TPH and ethylbenzene with 1380 mg/k and 20 mg/kg, respectively. The former UST and associated contamination constitutes a historically recognized environmental condition (HREC).
- Adjoining properties consist of baseball fields and undeveloped land. Historical aerial photographs show parks surrounding the subject property.
- Sanborn Fire Insurance maps showed that the subject property was vacant land before the armory was built with the presence of Magnolia Lake between 1933 and 1949. Adjacent properties consisted of undeveloped areas and a commercial sector. Sanborn maps revealed that a National Guard Armory occupied a small office space on E Broadway Street near the intersection of Main Street. This property is separate from the property being investigated in this Targeted Brownfield Assessment.
- 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.
- Thirty-one underground storage tank sites were found within a ½ mile radius of the subject property. The UST sites are located east, west, southwest, and northwest of the subject property. The closest USTs to the subject property are located within one or two blocks from the subject property and are listed as permanently out of use. It is unknown if those tanks have been removed. Of the thirty-one USTs, four sites have current and historic leaking underground storage tank cases.
- 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.
- Pole mounted transformers, in good condition without any leaks, are located around the armory building. It is unknown if these transformers contain PCBs. Fluorescent lighting

ballasts are located throughout the building. The lighting ballasts are all in good condition. It is unknown if the lighting ballasts contain PCBs.

## **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.

DEQ feels there is a low potential of impact from the LUST cases due to the distance they are located from the site. None of these LUST cases were found on the adjoining properties either. It is not believed that nearby LUST sites pose a threat, because they are listed as permanently out of use and have no associated LUST cases. The UST located in the subject property was removed according to prescribed standards by OCC on December 31, 1997. This is considered a historic REC due to the potential soil and groundwater impacts. However, based on the investigation DEQ feels there is a low potential of impact to the site from the LUST and UST sites.

Two of the oil wells located near the subject property area may not be plugged, representing a safety hazard. The OCC could not find any information regarding the production or closure of these wells. In that case these wells are considered historic RECs.

## **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. The Limited Environmental Baseline Assessment (LEBA) had not been completed by the Oklahoma Military Department at the time this TBA was 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 Seminole armory located at 600 E. Strothers Ave. Seminole, 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 information provided in this assessment is to assist the American Legion 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. 2), as provided in the Small Business Relief and Brownfields Revitalization Act of 2002 (Public Law 107-118, Subtitle B – Ref. 3).

## 10. 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.

## 11. 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.

## 12. REFERENCES

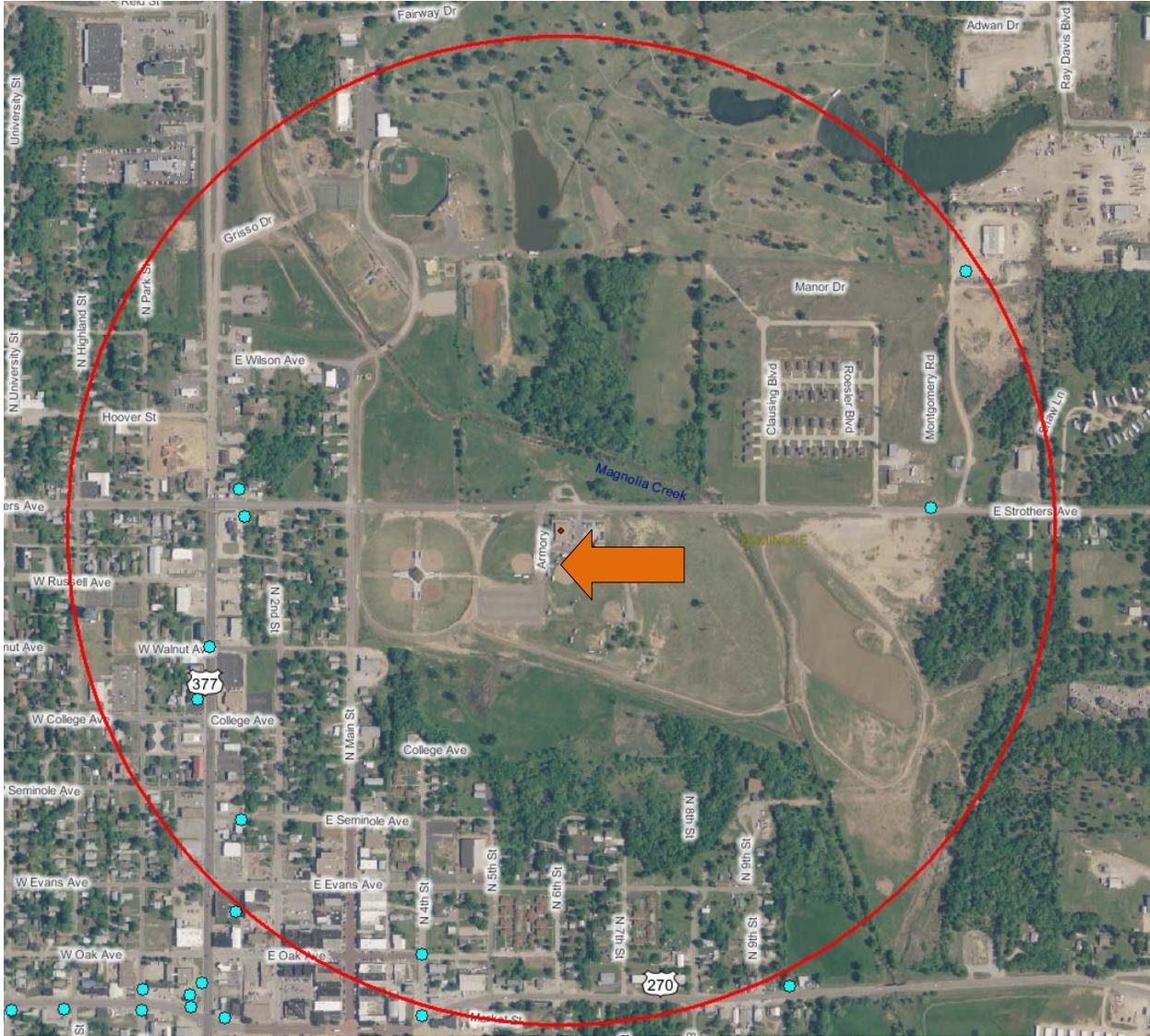
1. U.S. Environmental Protection Agency. (2006). *Oklahoma Brownfields Assistance Agreement (No #RP976412010)*. Unpublished Document. State of Oklahoma: Oklahoma City, Oklahoma.
2. U.S. Environmental Protection Agency. (1980). *Comprehensive Environmental Response, Compensation, and Liability Act*. (Public Law 96-510). Washington, DC: U.S. Government Printing Office.
3. 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.
4. ASTM International. (2005). *Water and Environmental Technology: Phase I Environmental Site Assessment E 1527 – 05*. Baltimore, Maryland.
5. Beatriz Santamaria, Oklahoma Department of Environmental Quality, interview notes with former American Legion member Buster Wilcox, September 14, 2009, Seminole Armory.
6. Sanborn Fire Insurance Maps. Oklahoma Department of Libraries. [www.odl.state.ok.us](http://www.odl.state.ok.us).
7. Oklahoma Geological Survey. Morton, R.B. *Effects of Brine on the Chemical Quality of Water in Parts of Creek, Lincoln, Okfuskee, Payne, Pottawatomie and Seminole Counties, Oklahoma*. (1986).
8. EPA NPL list: <http://www.epa.gov/superfund/sites/npl/status.htm>.
9. Deleted NPL sites database:  
<http://www.epa.gov/superfund/sites/query/queryhtm/npldel.htm>

10. CERCLIS current and archived sites:  
<http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>.
11. RCRA database: [http://www.epa.gov/enviro/html/rcris/rcris\\_query\\_java.html](http://www.epa.gov/enviro/html/rcris/rcris_query_java.html).
12. Emergency Response Notification System: <http://www.nrc.uscg.mil/foia.html>.
13. State Landfill site list: <http://www.deq.state.ok.us/LpDnew/swindex.html>.
14. Oklahoma Department of Environmental Quality online data viewer.  
[www.deq.state.ok.us](http://www.deq.state.ok.us)
15. Federal Emergency Management Association (FEMA). <https://msc.fema.gov>.
16. RCRA NOTIFIERS sorted by county and then city:  
<http://www.deq.state.ok.us/LPDnew/HW/Notifiers/notifiersbycountycity.pdf>.
17. National Resources Conservation Services (NRCS):  
<http://soils.usda.gov/survey/>

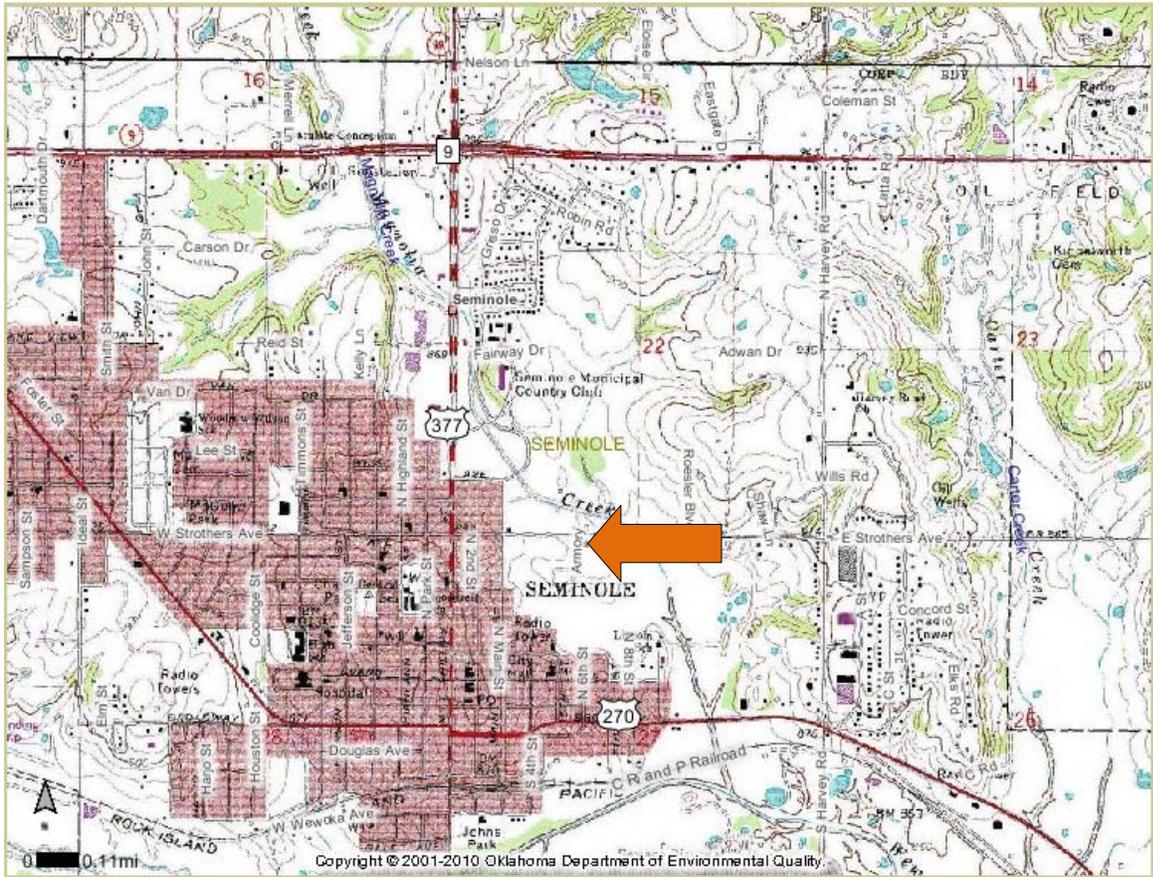
### **13.0 APENDICES**

- Appendix A Site Map and Topographic Map
- Appendix B Aerial Photographs
- Appendix C Sanborn Fire Insurance Maps
- Appendix D Flood Insurance Rate Map
- Appendix E Floor Plan
- Appendix F Field Notes
- Appendix G Site Photographs
- Appendix H Oil and Gas Records
- Appendix I Qualification(s) of Environmental Professionals
- Appendix J Location and Legal Description
- Appendix K ERNS Data
- Appendix L Oklahoma Corporation Commission Tank Removal and Closure Report  
For 1-1000 Gallon Underground Storage Tank

Appendix A: Site Map and Topographic Map

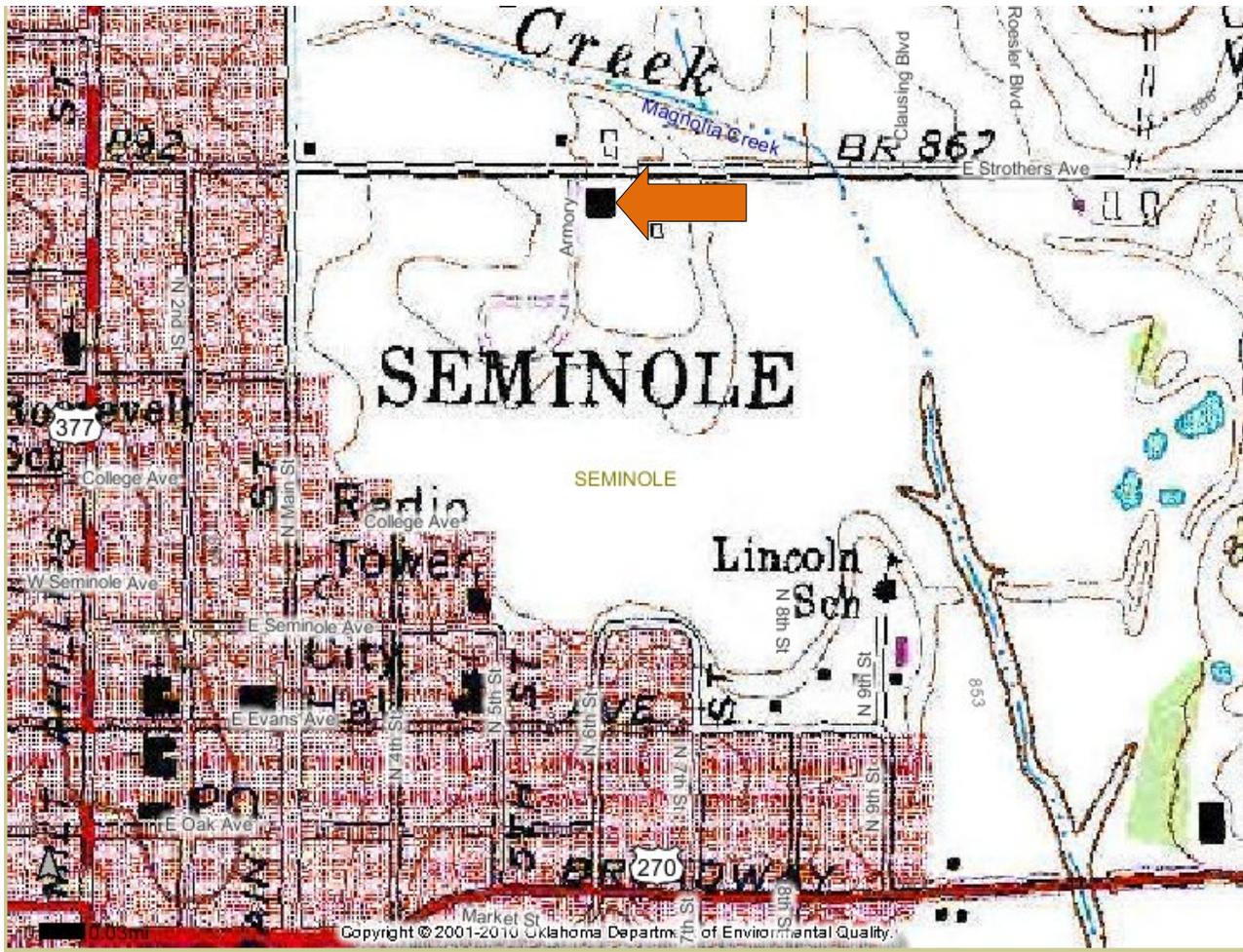


Site Map showing a 0.5mile radius buffer. Blue dots represent Leaking underground storage tanks (LUST).



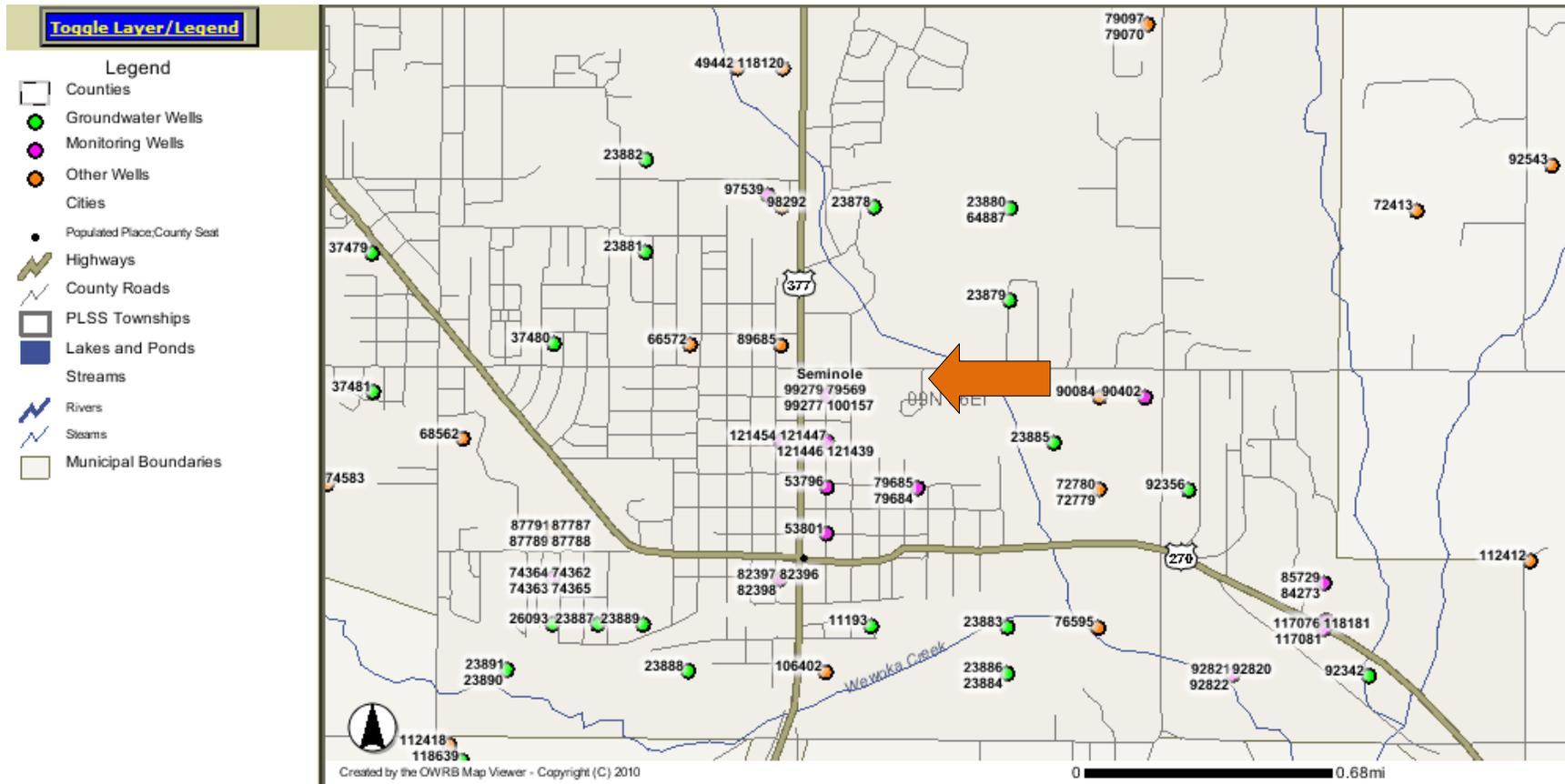
USGS 7.5 minute topographic map.

Map created using the DEQ Data Viewer using a USGS 7.5 minute topographic map. The digital raster graphic scale is 1:24,000.



USGS 7.5 minute topographic map.

Map created using the DEQ Data Viewer using a USGS 7.5 minute topographic map. The digital raster graphic scale is 1:24,000.



Map showing groundwater wells, monitoring wells and other wells around the army. Map created using the Oklahoma Water Resources Board.

## Appendix B: Aerial Photographs

## 1938 Aerial Photograph



Source: Oklahoma Department of Libraries

## 1956 Aerial Photograph



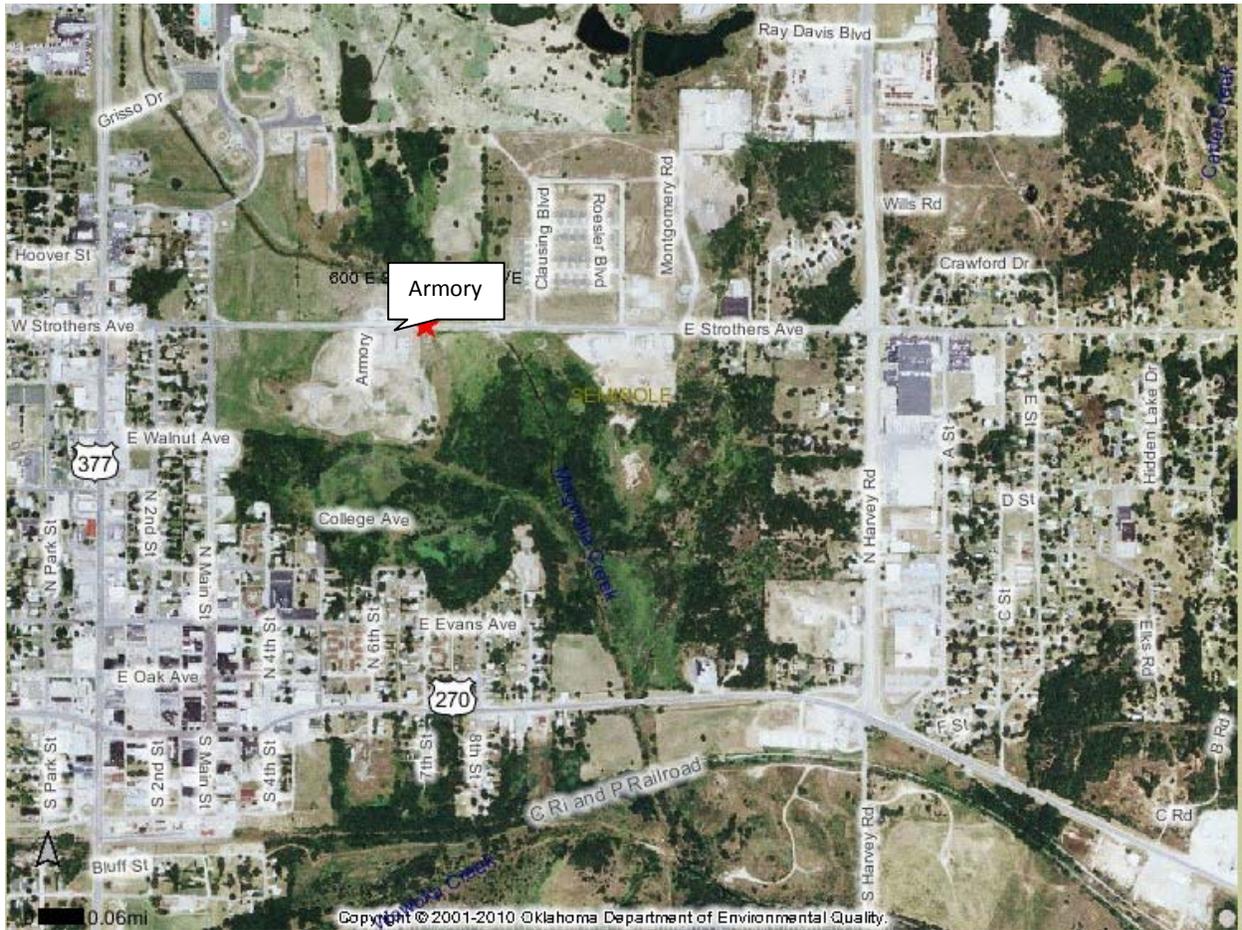
Source: Oklahoma Department of Libraries

## 1995 Aerial Photograph



Source: DEQ Data Viewer

## 2003 Aerial Photograph



Source: DEQ Data Viewer

**2008 Aerial Photograph**

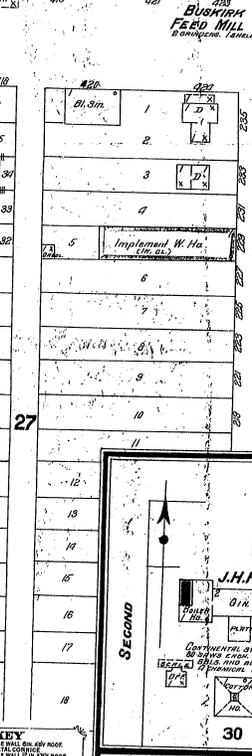
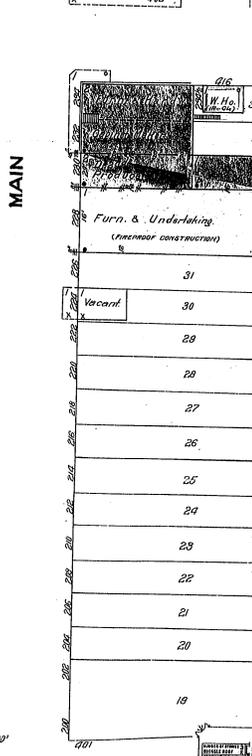
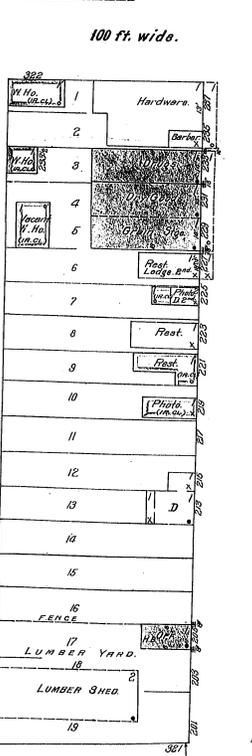
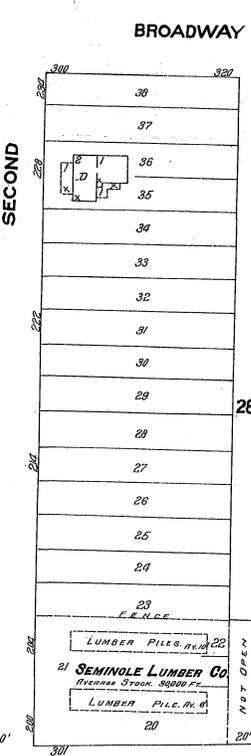
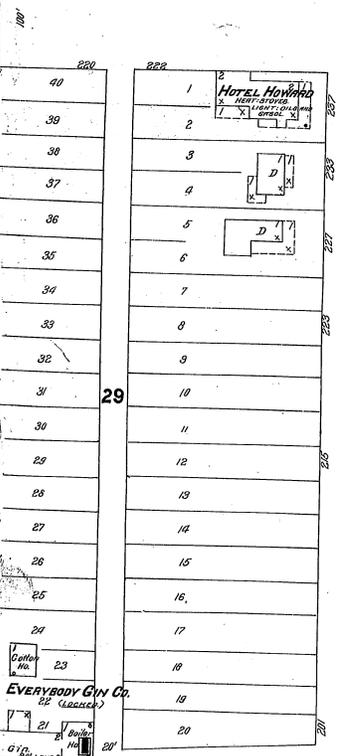
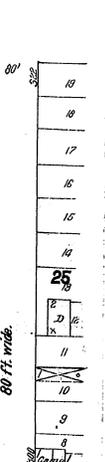
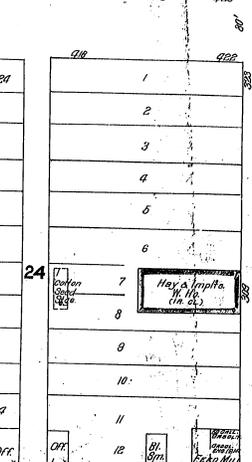
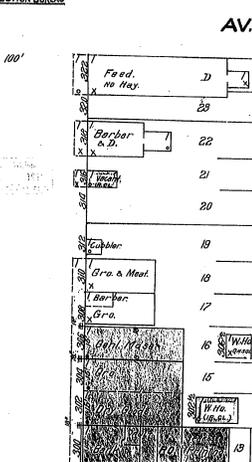
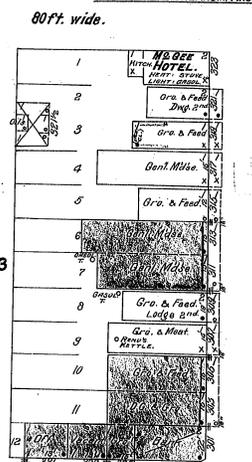
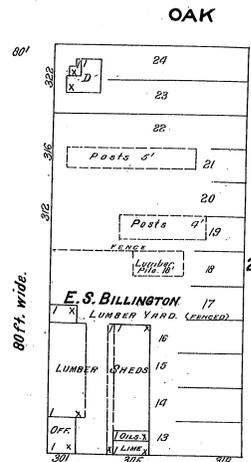
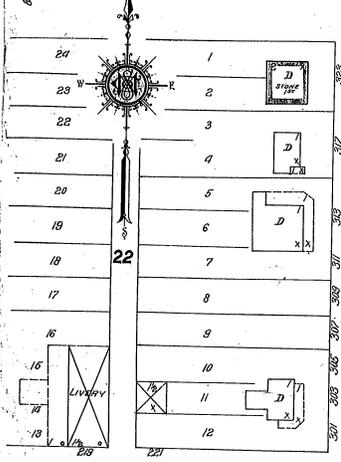
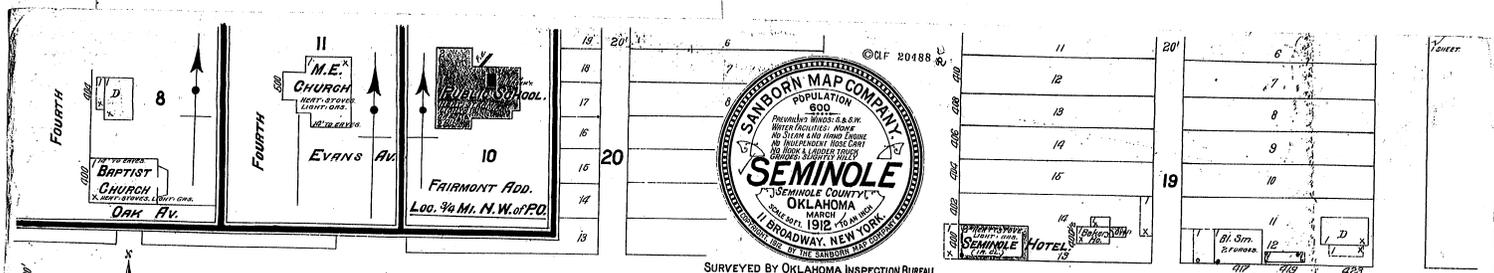


Source: DEQ Data Viewer

## Appendix C: Sanborn Fire Insurance Maps

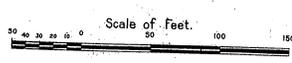


SURVEYED BY OKLAHOMA INSPECTION BUREAU



**KEY**

- 1. FIRE WALL IN ANY ROOF
- 2. FIRE WALL IN ANY ROOF
- 3. FIRE WALL IN ANY ROOF
- 4. FIRE WALL IN ANY ROOF
- 5. FIRE WALL IN ANY ROOF
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- 50. FIRE WALL IN ANY ROOF

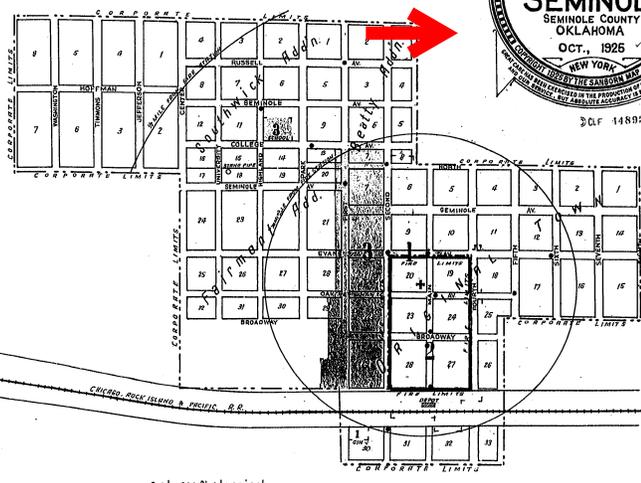




JAN 21 '26

**WATER FACILITIES:** Water works municipal ownership. Gravity & direct pressure. Source 2-deep wells. 2-Pomona pumps, also driven, size 4'x6'; capacity 300 gals. per min. each, iron stand pipe elevated 30' above business district; capacity 3000 gals. 2-cities, 2'-2 1/2" water pipe, 12 ft. dia. Average daily consumption 50,000 gals. domestic pressure 30 lbs. Fire pressure 100 lbs.

**FIRE DEPARTMENT:** Volunteer company 1-chief & 4-men. 1-Fire station. Ford truck 2-45 gal. chemical tanks with 100' hose, 1000' 2 1/2" hose, pumper 250 gals. per min. motorized. Fire alarm-telephone. Streets not paved. Grades level. Public lights electric.

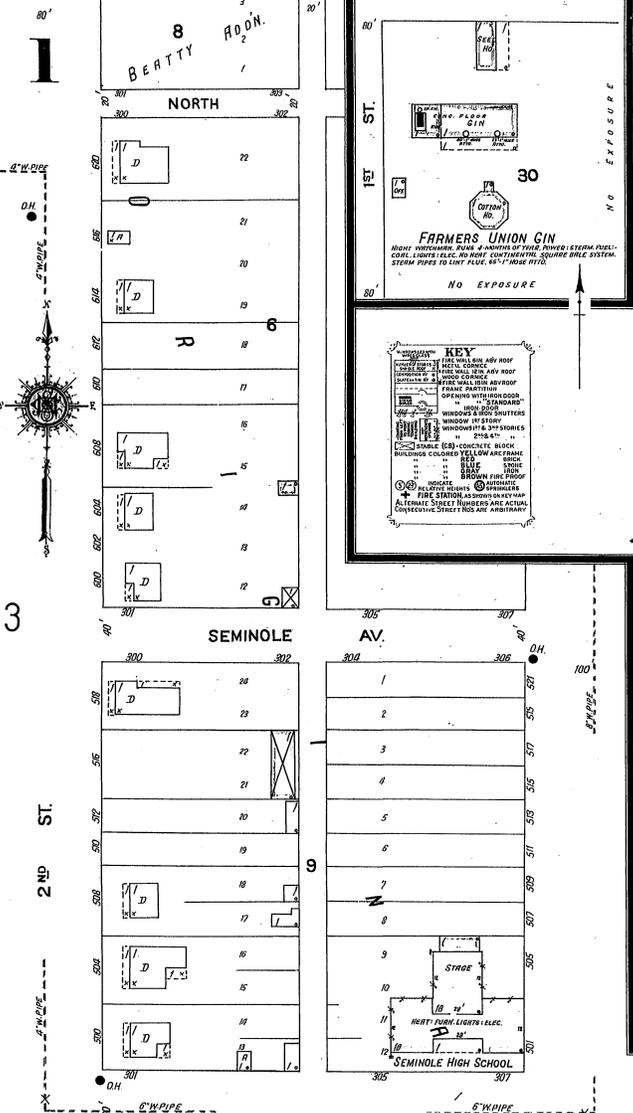


Scale 600 ft. = 1 inch



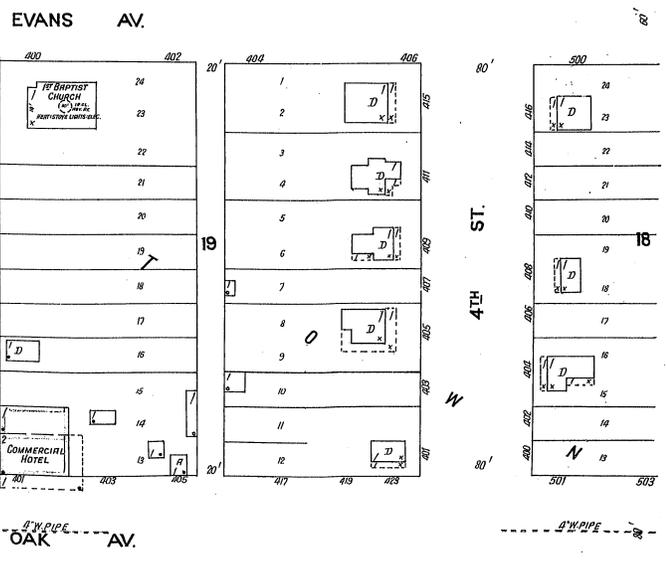
### INDEX

| SPECIALS | Sheet                         | Grade School | Sheet                     |
|----------|-------------------------------|--------------|---------------------------|
| B        | Billington, E. S., Lumber Co. | K            | Keves, E. M., Feed Mill   |
| B        | Bummett Cotton Gin Co.        | M            | McCumber, M., Feed Mill   |
| C        | C. R. 1 & P. R. Depots        | P            | Post Office               |
| C        | Church of Christ              | R            | Rogers, T. H., Lumber Co. |
| E        | Everyday Gin Co.              | S            | Seminole High School      |
| F        | Farmers Union Gin             | H            | Hotel                     |
| F        | Fire Department               | W            | Whitfield Lumber Co.      |
| F        | First Baptist Church          |              |                           |
| F        | M. E. Church                  |              |                           |



**FARMERS UNION GIN**  
HEAVY STRUCTURE. FEED & STORAGE. FINE. POWER & STEAM. FULL-COAL. LIGHTS ELEC. NO HOSE CONTINGENTIAL. SQUARE BILE SYSTEM. STEAM PIPES TO UNIT FLUE. 45'-4" HOSE PIPES.

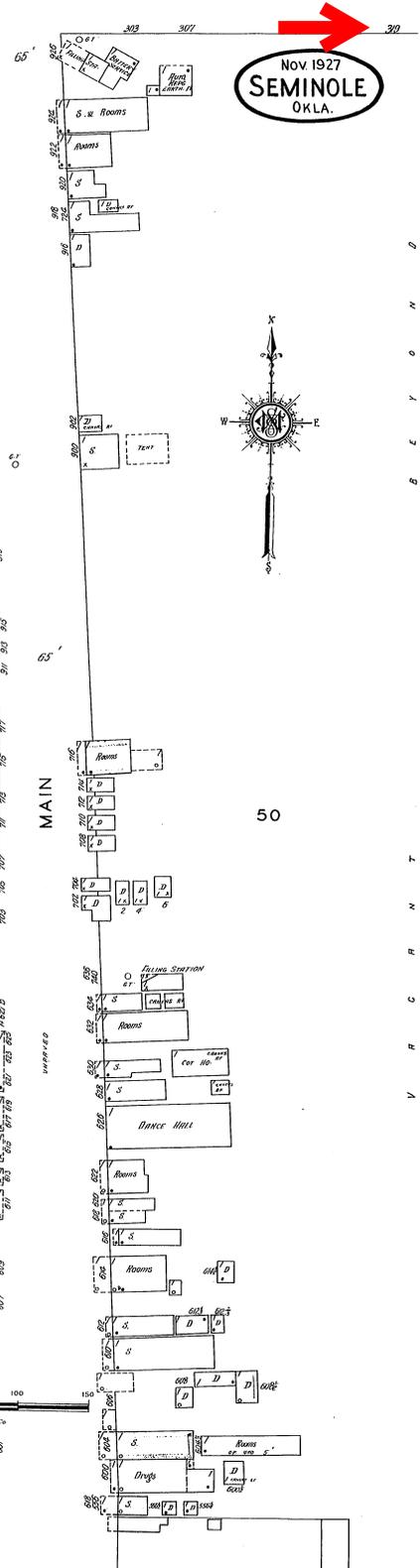
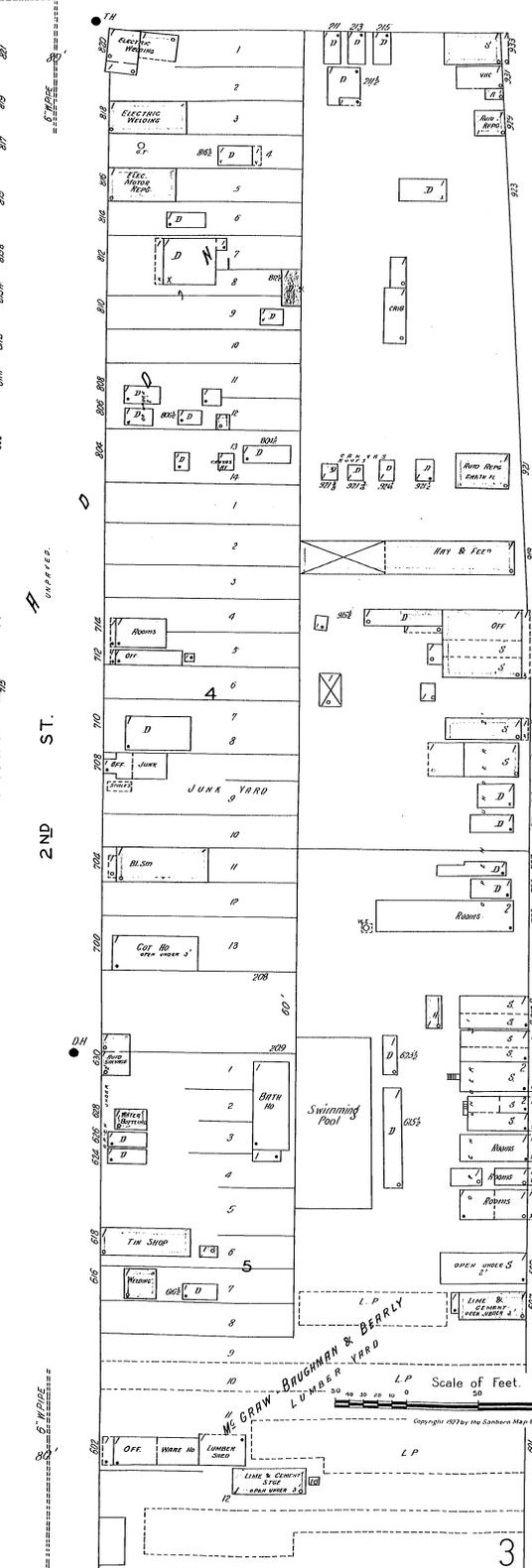
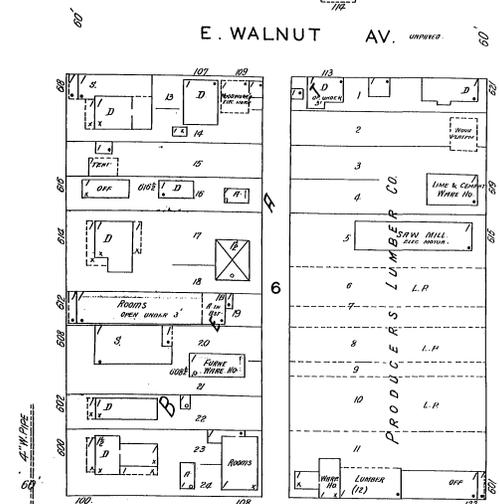
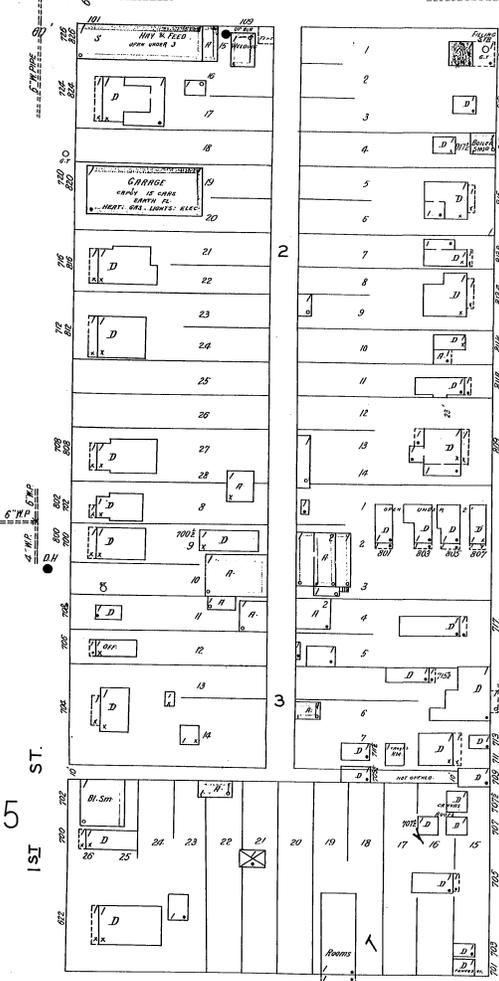
**KEY**  
INDICATED BY THE LETTERS IN THE CORNERS OF THE LOTS.  
D - DWELLING  
C - CONCRETE  
S - STABLE  
H - HOTEL  
F - FIRE DEPARTMENT  
M - MEAT MARKET  
G - GIN  
L - LUMBER  
P - POST OFFICE  
R - ROGERS  
S - SEMINOLE  
W - WHITFIELD  
CH - CHURCH  
SC - SCHOOL  
SH - SHOP  
ST - STREET  
TH - THEATRE  
TR - TRADING  
W - WATER  
WH - WHOLESALE  
WV - WAREHOUSE  
WY - WYOMING  
Z - ZOO  
ZK - ZOOKEEPER  
ZL - ZOO LAND  
ZM - ZOO MASTER  
ZP - ZOO POND  
ZS - ZOO STABLE  
ZT - ZOO TANK  
ZU - ZOO UTILITY  
ZV - ZOO VETERINARY  
ZW - ZOO WAREHOUSE  
ZX - ZOO EXHIBIT  
ZY - ZOO YARD  
ZZ - ZOO ZOO



Scale of Feet. 0 50 100 150

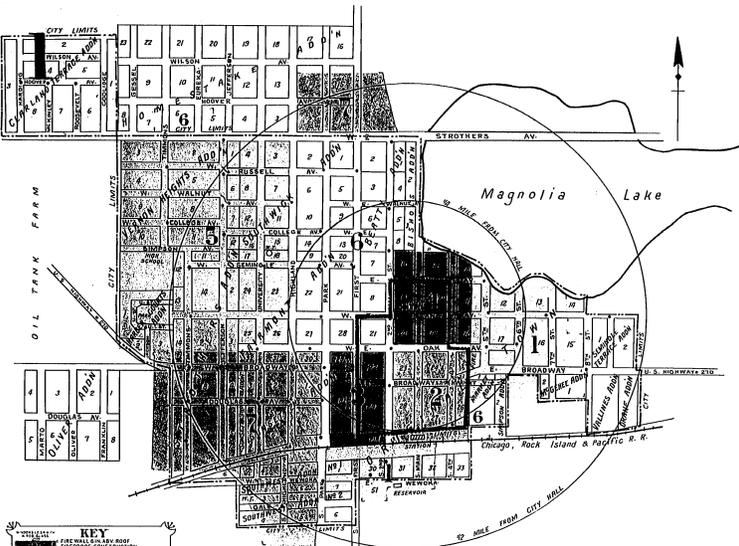


CITY LIMITS E. STROTHERS AV. CITY LIMITS



V E R Y O N T V R C R N T

Copyright 1927 by the Sanborn Map Co.



PAVING--8 miles of paved streets. GRADES--Level. PUBLIC LAWN--Shrubic. WATER FACILITIES. Municipal ownership. Water supply from 8 wells. Gravity and direct pressure systems. Water is pumped from wells by 8 10-horsepower pumps...

FIRE DEPARTMENT. 1 chief, 2 captains and 1 hose man, fully paid. 18 volunteers, paid by fire. 1 station, fully motorized. 400 gallons per minute pump, one 100 gallon booster tank and 200 gallons hoisting tank. 1 hose truck with 100 ft. of hose and 100 ft. of hose.

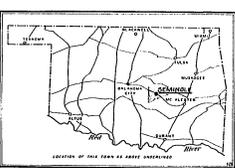
Edition of Map JUL 24 1933 Library of Congress

JUL 19 1933 Of san. 1290

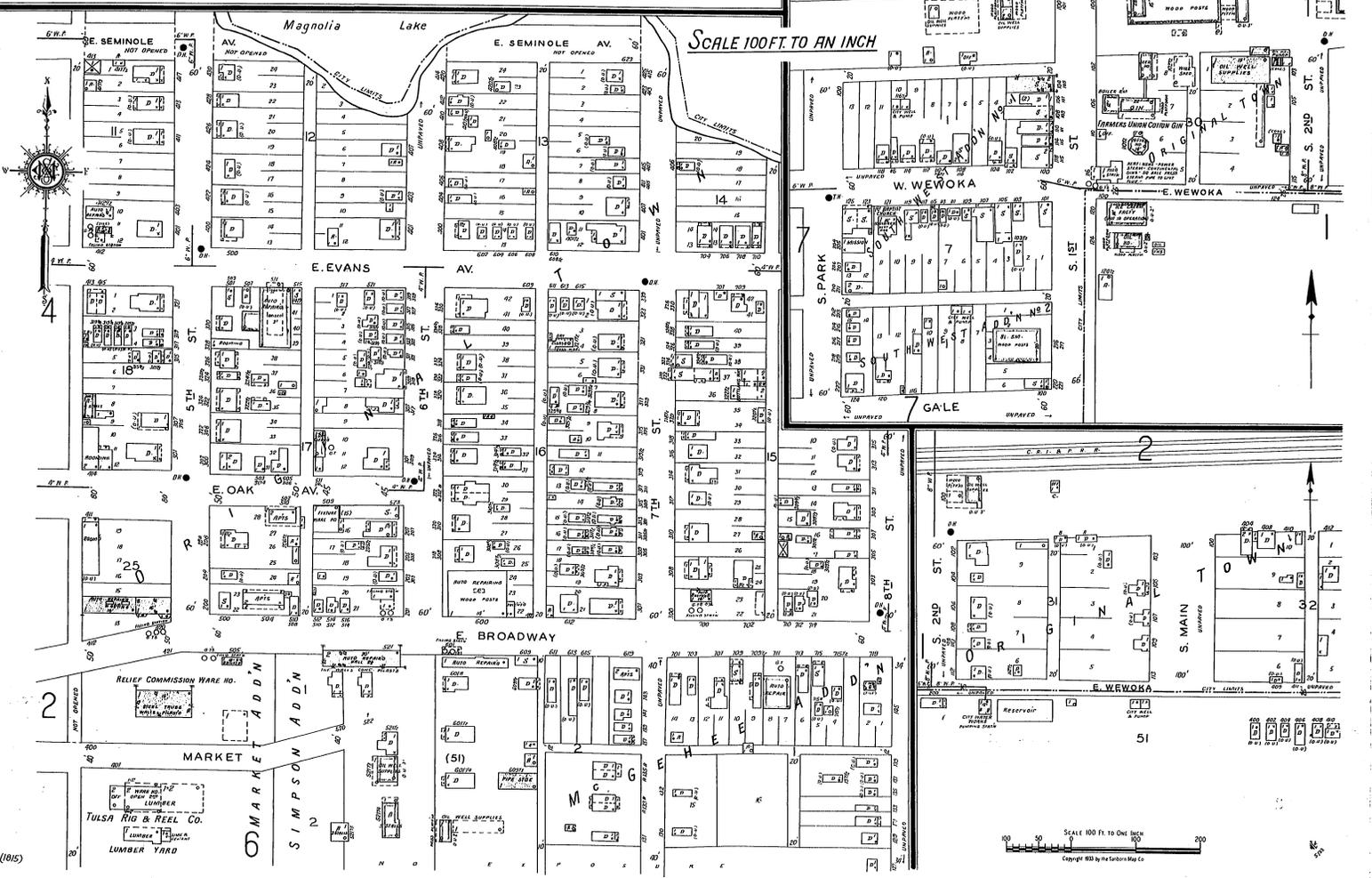
INDEX

Table with columns for STREET, NUMBER, and SPECIALS. Lists various streets and their corresponding numbers and special uses like churches, schools, and businesses.

KEY. Legend for building types and materials: BRICK VENEERED BUILDING, FRAME BUILDING, METAL CLAD BUILDING, IRON BUILDING, WOOD FRAME BUILDING, etc.

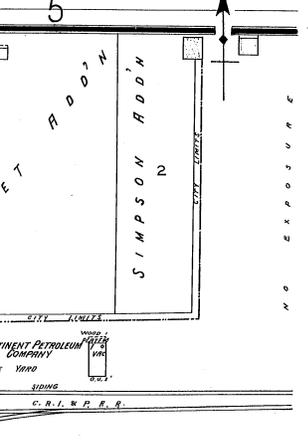
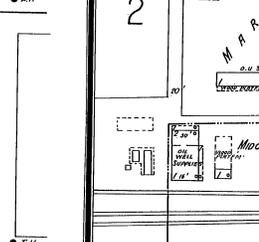
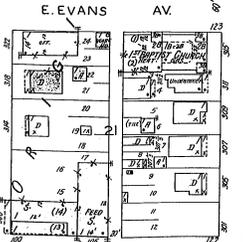
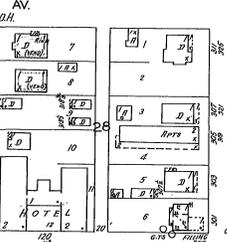
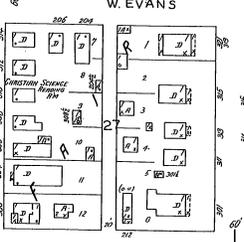
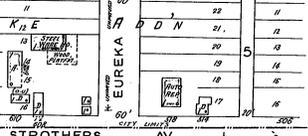
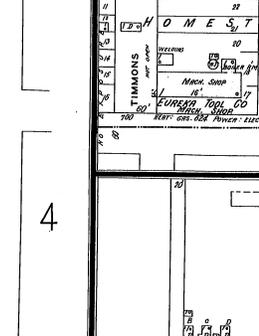
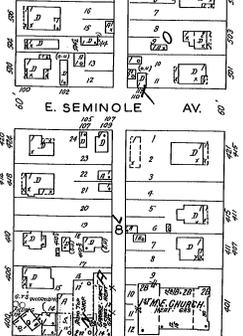
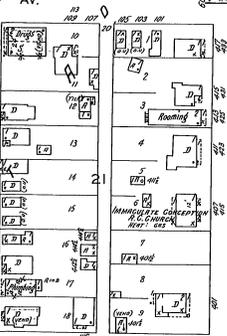
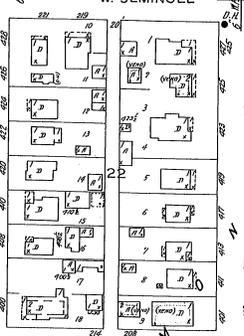
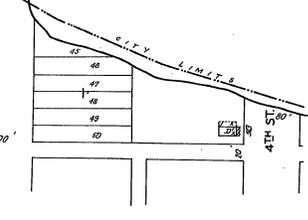
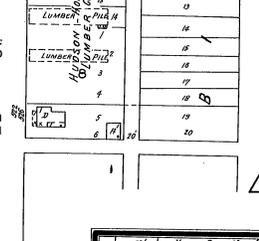
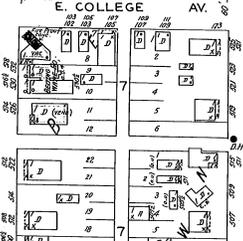
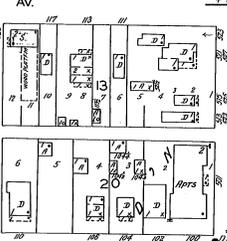
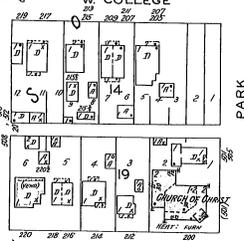
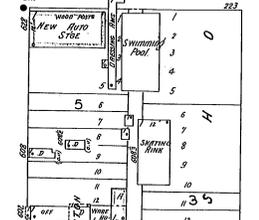
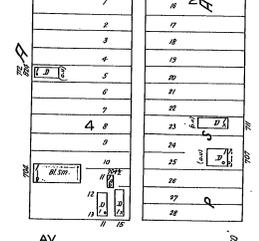
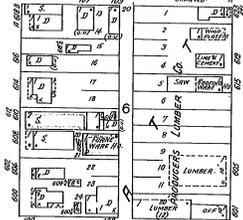
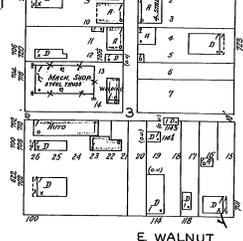
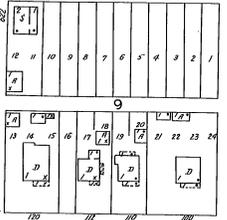
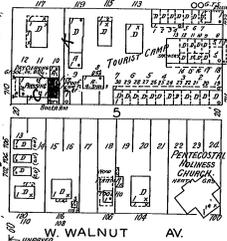
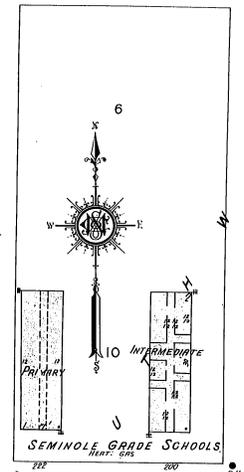
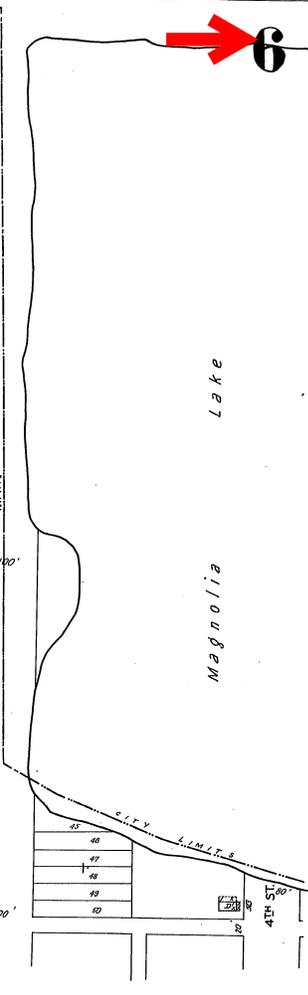
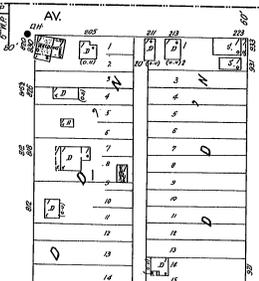
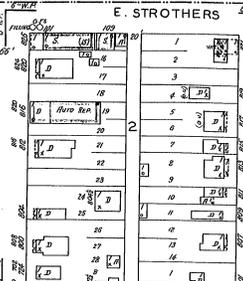
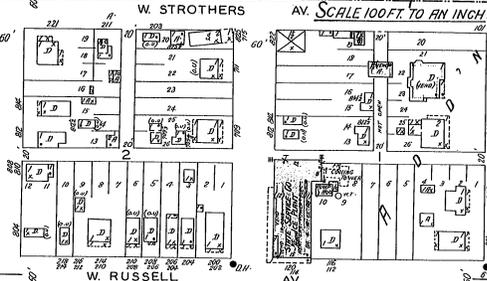


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SCALE 100 FT. TO ONE INCH Copyright 1933 by the Seminole Map Co.

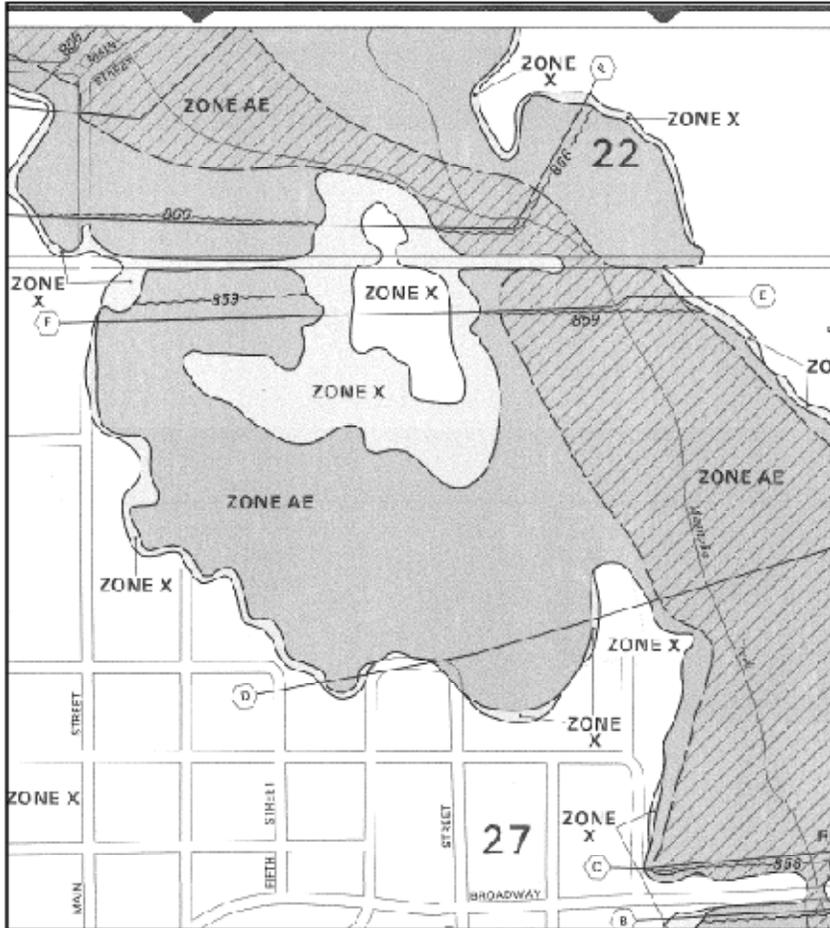
6







Appendix D: Flood Insurance Rate Map



**NATIONAL FLOOD INSURANCE PROGRAM**

**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**SEMINOLE COUNTY, OKLAHOMA AND INCORPORATED AREAS**

PANEL 107 OF 200

DATE MAP IN USE FOR PANELS NOT PRINTED:

| DATE     | REVISION | BY | REASON |
|----------|----------|----|--------|
| 05/21/00 | 1017     | C  |        |
| 06/21/01 | 1111     | L  |        |

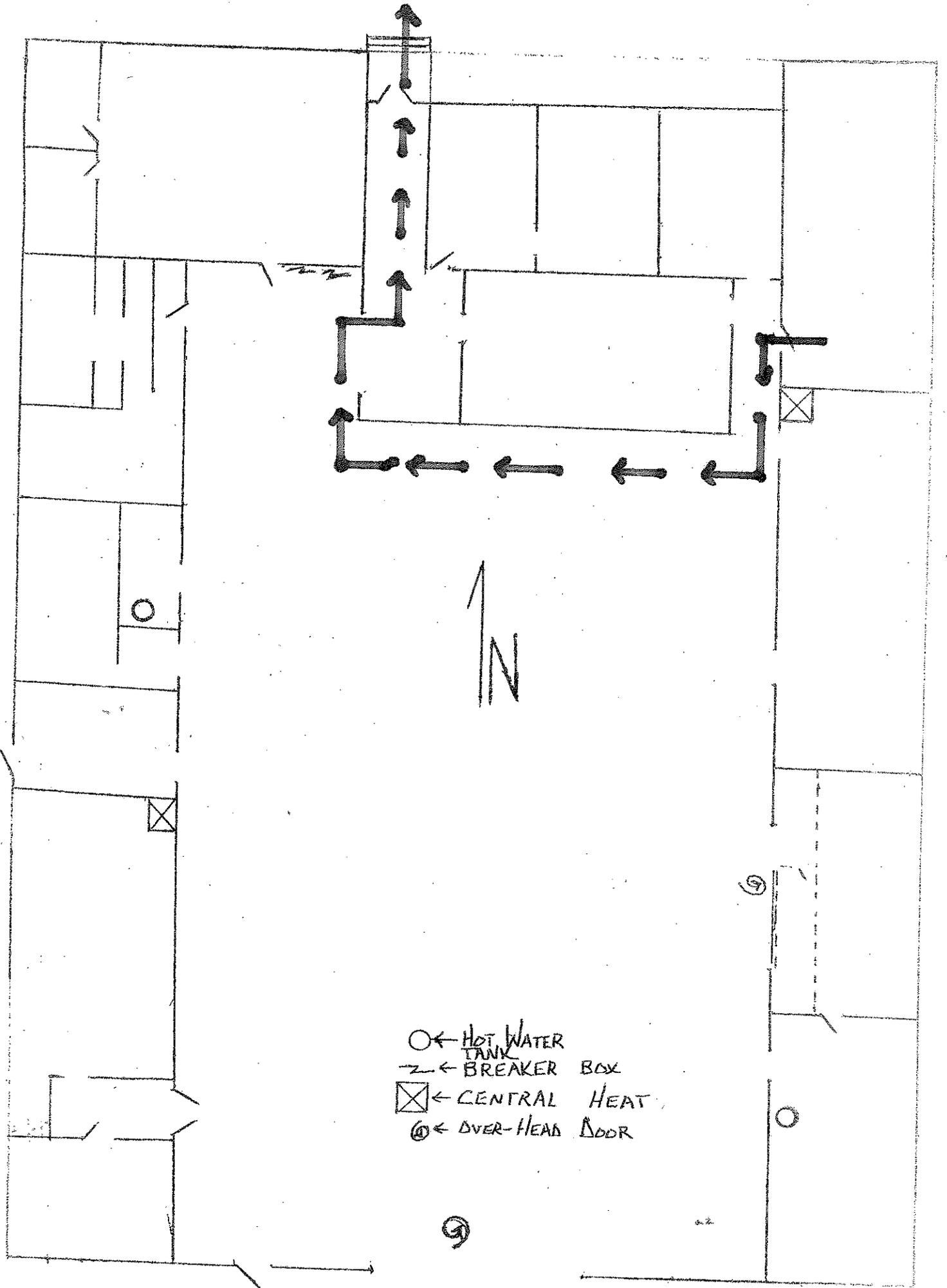
STATE OF OKLAHOMA  
 FEDERAL EMERGENCY MANAGEMENT AGENCY

MAP NUMBER  
 10133C0107C

EFFECTIVE DATE:  
 FEBRUARY 16, 1999

This is an official copy of a portion of the above referenced flood map. It was extracted using FIRM DivLine. This map does not reflect changes or amendments which may have been made subsequent to the date of the file from which this map was extracted. For the latest version of information about National River Insurance, please visit our website at [www.mwr.fema.gov](http://www.mwr.fema.gov).

## Appendix E: Floor Plan



- ← HOT WATER TANK
- ⚡ ← BREAKER BOX
- ⊠ ← CENTRAL HEAT
- ⊙ ← OVER-HEAD DOOR

## Appendix F: Field Notes

# Seminole

## AAI Site Visit

Facility name: Seminole

Facility address: 600 E Strother Ave

Date of visit: 09/09/10

DEQ staff in attendance: Dustin Davidson, Beatriz Santamania

People interviewed/affiliation with site:

Buster from American Legion

Note: Take a copy of the facility map with you to mark where drains, utilities, and sampling locations are located

### Asbestos

Note: If Marshall Environmental has already surveyed for asbestos then we can get this information from their report.

Suspect asbestos containing materials (ACM):

| <u>Location of ACM</u>                    | <u>Material</u> | <u>Notes</u>            |
|---|-----------------|-------------------------|
| 1. male restroom                          | pipe wrap       |                         |
| 2. Wash room C-1                          | "               | deteriorated            |
| 3. Drill Hall                             | pipe wrap       | around drill Hall walls |
| 4. 2nd restroom                           | "               | "                       |
| 5. 12x12 file @ room to north east corner |                 |                         |
| 6. Storage room NE                        | pipe wrap       |                         |
| 7.  |                 |                         |
| 8.  |                 |                         |
| 9.  |                 |                         |
| 10.                                       |                 |                         |
| 11.                                       |                 |                         |
| 12.                                       |                 |                         |
| 13.                                       |                 |                         |
| 14.                                       |                 |                         |
| 15.                                       |                 |                         |

405-382-7360 Tony Little

\* No fire extinguishers in building  
\* residential area around the property

**Military Department Property** (Please provide a detailed inventory of military property)

NO Boiler present? NO Radiator present? # of radiators \_\_\_\_\_

Rooms radiator(s) present in: \_\_\_\_\_

\_\_\_\_ Old lighting ballasts present? NO

Rooms old lighting ballasts present in: \_\_\_\_\_

| <u>Type of property</u> | <u>Amount</u>          | <u>Room Located In</u> |
|-------------------------|------------------------|------------------------|
| 1.                      |                        |                        |
| 2.                      | → central heat and air | in the building        |
| 3.                      | → heating furnaces     |                        |
| 4.                      |                        |                        |
| 5.                      |                        |                        |
| 6.                      |                        |                        |
| 7.                      |                        |                        |
| 8.                      |                        |                        |
| 9.                      |                        |                        |
| 10.                     |                        |                        |

**Radiation Signs**

Are radiation signs present in the building? NO <sup>both</sup> yes → building's next door

What does the sign say? Caution Radioactive material.

**Utilities**

Probably from artillery trucks

City water    \_\_\_ Well     City sewer    \_\_\_ Septic tank

Natural gas     Propane  
Back up system for emergency with a generator.

**Underground features**

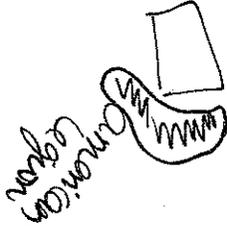
NO USTs removed    \_\_\_ Vent pipes present    \_\_\_ USTs not removed

**Above ground features**

NO Cisterns present    \_\_\_ ASTs    \_\_\_ Impoundments  
↳ propane tank for heating emergencies

**Structures on adjoining property**

Residential, commercial structures, churches, schools etc



**Onsite information**

NO Air Emissions      \_\_\_ Wastewater Discharge  
*sewer line connected to the city*

**Industrial activities**

\_\_\_ Monitoring wells *Location:*

\_\_\_ Stained soils      *Location:*

\_\_\_ Seeps      *Location:*

\_\_\_ Chemical spills *Location:*

\_\_\_ Oil and Gas Exploration *Describe:*

\_\_\_ Known Groundwater or Surface Water contamination

*Describe:*

\_\_\_ Farm Wastes      *NO*

\_\_\_ Known Pesticide Misapplication      *NO*

\_\_\_ Discharges and Runoff from Adjacent Property Affecting the Site      *NO*

\_\_\_ Transformers/PCB Equipment      *Location: NO*

*Describe:*

Other known or Suspected Environmental Concerns On the Site

Historical Recognized Environmental Conditions On the Site

**Current Use of the Property**

Descriptions of Structures, Roads, Other Improvements on the Site

**Description of adjacent properties**

*Undeveloped + park*

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

- *American Legion / Military (?)*
- o *↳ manager and occupant*

**Additional Environmental Record Sources**

City Records: e.g. Material Safety Data Sheets for chemicals used at industrial or commercial facilities Land Use Restrictions

## Physical Setting Sources

## Historical Use Information on the Property

## Historical Use Information on Adjoining Properties

## Site Reconnaissance

Methodology and Limiting Conditions: The method used to observe the property and limitations imposed by physical obstructions or limiting weather conditions.

### General Site conditions:

#### External observations

\_\_\_ Stained soil or pavement \_\_\_ Stressed vegetation \_\_\_ Solid waste

Other:

Internal observations

→ in front of garage door floods with rain

NO Odors Y Pools of liquids \_\_\_ Drums

\_\_\_ Stains or Corrosion on floors, walls, or ceilings

Other:

**General notes:**

- CBP - door frames, concrete floor in drill hall
- upper windows + doors with paint
- OHD + OHD frame
- Untot
- OHD frame at entrance
- paint on walls around building
- downpouts.

window lens hole  
outside

# Seminole

## GENERAL TOPICS TO COVER DURING OWNER/OPERATOR/NEIGHBOR INTERVIEWS

Target Property: Seminole

Please print your name: Buster Wilcox

Date: 09/09/10

Relative to the property in question, are you the:

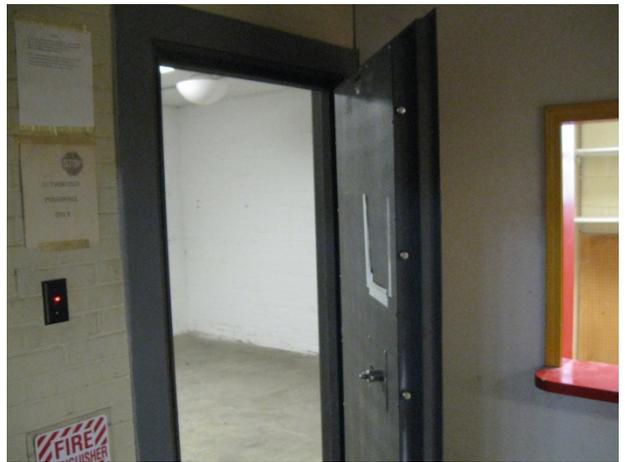
Owner/Occupant/Neighbor/Employee/Observer/Other Owner/Occupant ? (circle one)

**If the space provided by a question is too small for your answer, please write the question number and the rest of the answer on the back.**

1. Are you aware of any current Industrial use in the area? NO  
~ 0.5-1 mile away
2. Are you aware of current Industrial use nearby? (if so, please describe uses, period, location) nearby → on Haney Road
3. Are you aware of any past Industrial use in the area? NO  
always been used as park surrounding
4. Are you aware of past Industrial use of nearby? (if so, please describe uses, period, location) \_\_\_\_\_
5. Most common types of industrial use (circle as appropriate): Service station, Vehicle repair, Print shop, Dry cleaner, Photo lab, Junkyard, Waste treatment/storage/disposal sites, or Other : \_\_\_\_\_
6. Are you aware of any discarded auto/industrial batteries, pesticides, paints or other industrial chemicals present in the area? Larger than 5 gallon size? More than 50 gallons total? NO
7. Are you aware of any drums or storage tanks present in the area? NO
8. Are you aware of any fill dirt brought onto the property? Do you know the source of the fill? NO on the army property  
NOT on property but surrounding it  
has → maybe to remove the lake
9. Are you aware of any pits, lagoons, or ponds (or former pits, lagoons, or ponds) in the area? SE corner - (not on property)  
↳ Magnolia lake looks like a pond
10. Are you aware of any stained soil in the area? NO
11. Are you aware of any vent pipes or fill pipes protruding from ground now or in the past? NO
12. Are you aware of any past leaks, spills, or stains in the area? NO
13. Are you aware of any unusual odors coming from soil, structures or drains in the area? NO
14. Are you aware of any wells in the area, or nearby? used to in  
the past but not right now



## Appendix G: Site Photographs











## Appendix H: Oil and Gas Records

**Oil and gas wells near the subject property.**

| API COUNTY | API NUMBER | WELL NAME      | WELL NUMBER | OPERATOR NAME                | Drilling Start | Drilling Completed | Plugging Completion | S  | T   | R   | Q3 | Q2 | Q1 |
|------------|------------|----------------|-------------|------------------------------|----------------|--------------------|---------------------|----|-----|-----|----|----|----|
| 133        | 09680      | GILLILAND J    | 1           | The Carter Oil Company       | 1/13/1927      | 3/26/1927          | 9/29/1971           | 27 | 09N | 06E | NE | NW | NE |
| 133        | 09681      | GILLILAND J    | 2           | The Carter Oil Company       | 4/20/1927      | 8/1/1927           | 2/25/1928           | 27 | 09N | 06E | SE | NW | NE |
| 133        | 09682      | JACKSON MARIA  | 1           | The Carter Oil Company       | 7/7/1927       | 10/6/1927          | 3/6/1928            | 27 | 09N | 06E | SE | SW | NE |
| 133        | 09683      | LUKES T        | 1           | The Carter Oil Company       | 9/10/1926      | 12/18/1926         | 3/26/1928           | 27 | 09N | 06E | NE | NE | NE |
| 133        | 09685      | LUKES T        | 3           | The Carter Oil Company       | 11/23/1937     | 12/2/1937          | 10/26/1939          | 27 | 09N | 06E | NW | NE | NE |
| 133        | 09686      | LUKES T        | 4           | The Carter Oil Company       | 3/17/1927      | 6/6/1927           | 7/13/1936           | 27 | 09N | 06E | SE | NE | NE |
| 133        | 09687      | LUKES T        | 5           | The Carter Oil Company       | 3/14/1927      | 5/18/1927          | 7/14/1928           | 27 | 09N | 06E | NE | SE | NE |
| 133        | 09688      | LUKES T        | 6           | The Carter Oil Company       | 3/15/1927      | 5/25/1927          | 3/3/1959            | 27 | 09N | 06E | SW | SE | NE |
| 133        | 09689      | LUKES T        | 7           | The Carter Oil Company       | 5/4/1927       | 9/26/1927          | 9/6/1927            | 27 | 09N | 06E | SW | NE | NE |
| 133        | 09690      | LUKES T        | 8           | The Carter Oil Company       | 5/2/1927       | 7/19/1927          | 12/24/1933          | 27 | 09N | 06E | NW | SE | NE |
| 133        | 20252      | HARVEY HEIRS   | 1           | Henry Rosenthal & Co         | 10/25/1968     | 12/4/1968          | 8/14/1992           | 27 | 09N | 06E | S2 | SE | NE |
| 133        | 20342      | HARVEY HEIRS   | 2           | Henry Rosenthal & Co         | 10/4/1969      | 10/20/1969         | 10/21/1969          | 27 | 09N | 06E | N2 | SE | NE |
| 133        | 09678      | HOMESTAKE B    | B-1         | Berry Thomas N & Co          | 7/1/1959       | 7/24/1959          | 9/19/1959           | 27 | 09N | 06E | NW | SE | SW |
| 133        | 30426      | HOMESTAKE      | 1           | Berry Thomas N & Co          | 1/21/1959      | 2/4/1959           | 8/18/1972           | 27 | 09N | 06E | SE | NE | SW |
| 133        | 01068      | O.D. STROTHERS | 8           | Sinclair Oil and Gas Company | 3/14/1956      | 3/26/1956          | N/A                 | 27 | 09N | 06E | NW | NE | SE |
| 133        | 01068      | O.D. STROTHERS | 8           | Sinclair Prairie Oil Company | 7/16/1943      | 9/22/1943          | N/A                 | 27 | 09N | 06E | NW | NE | SE |
| 133        | 01068      | O.D. STROTHERS | 8           | The Prairie Oil and Gas Co   | 3/19/1927      | 6/18/1927          | N/A                 | 27 | 09N | 06E | NW | NE | SE |
| 133        | 09679      | STROTHERS      | 1-A         | Blackwell O&G                | 5/12/1960      | 6/4/1960           | N/A                 | 27 | 09N | 06E | SW | NW | SE |

|     |       |                  |   |                                 |            |            |            |    |     |     |    |    |    |
|-----|-------|------------------|---|---------------------------------|------------|------------|------------|----|-----|-----|----|----|----|
| 133 | 09684 | STROTHERS<br>O D | 5 | The Carter Oil<br>Company       | 4/12/1927  | 6/19/1927  | 9/23/1927  | 27 | 09N | 06E | NE | NW | SE |
| 133 | 09693 | STROTHERS<br>O D | 1 | Phillips Petroleum<br>Co        | 11/22/1926 | 3/4/1927   | 10/15/1927 | 27 | 09N | 06E | SE | SW | SE |
| 133 | 09694 | STROTHERS<br>O D | 2 | Phillips Petroleum<br>Co        | 12/29/1926 | 3/29/1927  | 8/1/1927   | 27 | 09N | 06E | SW | SW | SE |
| 133 | 09695 | STROTHERS<br>O D | 3 | Phillips Petroleum<br>Co        | 3/3/1927   | 5/19/1927  | 6/27/1936  | 27 | 09N | 06E | NE | SW | SE |
| 133 | 09696 | STROTHER O<br>D  | 4 | Phillips Petroleum<br>Co        | 3/11/1927  | 5/17/1927  | 10/12/1963 | 27 | 09N | 06E | SE | NW | SE |
| 133 | 09696 | STROTHER O<br>D  | 4 | Phillips Petroleum<br>Co        | 3/16/1927  | 5/17/1927  | 10/12/1963 | 27 | 09N | 06E | SE | NW | SE |
| 133 | 09697 | STROTHERS<br>O D | 6 | Phillips Petroleum<br>Co        | 7/3/1927   | 8/2/1927   | 8/3/1927   | 27 | 09N | 06E | NW | SW | SE |
| 133 | 09698 | STROTHERS<br>O D | 2 | Sinclair Prairie Oil<br>Company | 1/23/1933  | 1/26/1933  | 10/7/1948  | 27 | 09N | 06E | SW | SE | SE |
| 133 | 09698 | STROTHERS<br>O D | 2 | The Prairie Oil and<br>Gas Co   | 11/5/1926  | 3/6/1927   | 10/7/1948  | 27 | 09N | 06E | SW | SE | SE |
| 133 | 09699 | STROTHERS<br>O D | 3 | The Prairie Oil and<br>Gas Co   | 11/12/1926 | 1/9/1927   | 12/6/1939  | 27 | 09N | 06E | NE | NE | SE |
| 133 | 09700 | STROTHER O<br>D  | 4 | The Prairie Oil and<br>Gas Co   | 1/9/1945   | 2/1/1945   | N/A        | 27 | 09N | 06E | SE | NE | SE |
| 133 | 09700 | STROTHER O<br>D  | 4 | The Prairie Oil and<br>Gas Co   | 11/10/1926 | 2/7/1927   | N/A        | 27 | 09N | 06E | SE | NE | SE |
| 133 | 09701 | STOTHER O D      | 5 | The Prairie Oil and<br>Gas Co   | 11/3/1926  | 2/8/1927   |            | 27 | 09N | 06E | NE | SE | SE |
| 133 | 09701 | STOTHER O D      | 5 | Sinclair Prairie Oil<br>Company | 3/13/1943  | 3/21/1943  |            | 27 | 09N | 06E | NE | SE | SE |
| 133 | 09702 | STROTHERS<br>O D | 6 | Sinclair Prairie Oil<br>Company | 3/4/1927   | 5/1/1927   | 10/17/1944 | 27 | 09N | 06E | NW | SE | SE |
| 133 | 09703 | STROTHERS<br>O D | 7 | The Prairie Oil and<br>Gas Co   | 3/15/1927  | 5/20/1927  |            | 27 | 09N | 06E | SW | NE | SE |
| 133 | 09703 | STROTHERS<br>O D | 7 | Sinclair Prairie Oil<br>Company | 8/1/1948   | 8/15/1948  | 9/30/1948  | 27 | 09N | 06E | SW | NE | SE |
| 133 | 09705 | STROTHERS<br>O D | 1 | The Prairie Oil and<br>Gas Co   | 8/28/1926  | 10/10/1926 | 10/2/1964  | 27 | 09N | 06E | SE | SE | SE |
| 133 | 09811 | LUKES T          | 2 | The Carter Oil<br>Company       | 11/4/1926  | 2/14/1927  | 1/10/1947  | 27 | 09N | 06E | SE | SE | SE |
| 133 | 20204 | STROTHERS        | 1 | KEENER OIL &                    | 1/26/1968  | 2/8/1968   | 2/10/1964  | 27 | 09N | 06E | SE | SE | SE |

|     |       |                         |   |   |            |            |                |    |     |     |    |    |    |
|-----|-------|-------------------------|---|---|------------|------------|----------------|----|-----|-----|----|----|----|
|     |       |                         |   | GAS COMPANY                                     |            |            |                |    |     |     |    |    |    |
| 133 | 20235 | STROTHER<br>SWD         | 1 | CARMAC<br>ENERGY<br>CORPORATION                 | 8/17/1968  | 8/27/1968  | Injection Well | 27 | 09N | 06E | S2 | NE | SE |
| 133 | 20267 | BUTTRAM                 | 1 | KEENER OIL &<br>GAS COMPANY                     | 12/7/1968  | 12/19/1968 | 12/19/1968     | 27 | 09N | 06E | SE | SW | SE |
| 133 | 20278 | STROTHERS-<br>COMMANDER | 2 | KEENER OIL &<br>GAS COMPANY                     | 3/14/1969  | 3/28/1969  |                | 27 | 09N | 06E | NW | SE | SE |
| 133 | 20300 | STROTHER                | 2 | IBS<br>Corporation/Carmar<br>Energy Corporation | 5/26/1969  | 6/9/1969   | 3/26/2010      | 27 | 09N | 06E | N2 | NE | SE |
| 133 | 20315 | BUTTRAM                 | 2 | KEENER OIL &<br>GAS COMPANY                     | 7/21/1969  | 8/3/1969   | OIL            | 27 | 09N | 06E | NE | SW | SE |
| 133 | 20315 | BUTTRAM                 | 2 | KEENER OIL &<br>GAS COMPANY                     | 9/13/1985  | 9/16/1985  |                | 27 | 09N | 06E | NE | SW | SE |
| 133 | 20367 | BUTTRAM                 | 3 | KEENER OIL<br>COMPANY                           | 12/9/1969  | 12/21/1969 | 12/22/1969     | 27 | 09N | 06E | SE | NW | SE |
| 133 | 20401 | ALBIN-<br>BUTTRAM       | 4 | PAWNEE<br>PETROLEUM<br>COMPANY                  | 4/9/1970   | 4/22/1970  | 4/23/1970      | 27 | 09N | 06E | NE | NW | SE |
| 133 | 20432 | STROTHERS               | 3 | CARMAC<br>ENERGY<br>CORPORATION                 | 6/20/1970  | 7/4/1970   | 3/23/2010      | 27 | 09N | 06E | NE | NE | SE |
| 133 | 20484 | STROTHERS               | 3 | KEENER OIL &<br>GAS COMPANY                     | 1/21/1971  | 1/31/1971  | N/A            | 27 | 09N | 06E | NE | SE | SE |
| 133 | 20484 | STROTHERS               | 4 | KEENER OIL &<br>GAS COMPANY                     | 12/6/1985  | 12/10/1985 | N/A            | 27 | 09N | 06E | NE | SE | SE |
| 133 | 20519 | STROTHER                | 4 | CARMAC<br>ENERGY<br>CORPORATION                 | 7/4/1971   | 7/17/1971  | N/A            | 27 | 09N | 06E | SE | NE | SE |
| 133 | 20538 | KEENER-<br>BUTTRAM      | 1 | VIKING<br>PETROLEUM<br>OPERATING CO             | 10/9/1971  | 11/4/1971  | N/A            | 27 | 09N | 06E | NW | SW | SE |
| 133 | 00939 | SHELL-<br>HARJO         | 2 | KOONTZ<br>LINDELL M                             | 10/14/1986 | 1/15/1988  | 2/21/1999      | 22 | 09N | 06E | SW | SE | SE |
| 133 | 07466 | HARJO L                 | 5 | Kingwood Oil                                    | N/A        | 4/29/1927  | 9/23/1927      | 22 | 09N | 06E | NE | NE | SE |
| 133 | 07467 | HARJO LOUIS             | 4 | Kingwood Oil                                    | N/A        | 3/24/1927  | N/A            | 22 | 09N | 06E | NE | SE | SE |
| 133 | 07468 | HARJO L                 | 5 | Kingwood Oil                                    | N/A        | 5/5/1927   | 9/8/1927       | 22 | 09N | 06E | SE | NE | SE |

|     |       |             |   |                                |            |            |            |    |     |     |    |    |    |
|-----|-------|-------------|---|--------------------------------|------------|------------|------------|----|-----|-----|----|----|----|
| 133 | 07469 | HARJO L     | 6 | Kingwood Oil                   | N/A        | 6/2/1927   | 6/3/1927   | 22 | 09N | 06E | NW | SE | SE |
| 133 | 07472 | HARBER W E  | 1 | Roxana Pet                     | N/A        | 2/22/1927  | N/A        | 22 | 09N | 06E | SE | SW | SE |
| 133 | 07473 | HARBER W E  | 2 | Roxana Pet                     | N/A        | 6/5/1927   | N/A        | 22 | 09N | 06E | NE | SW | SE |
| 133 | 07473 | HARBER W E  | 2 | Roxana Pet                     | N/A        | 4/16/1929  | 4/23/1929  | 22 | 09N | 06E | NE | SW | SE |
| 133 | 07474 | HARJO LOUIS | 2 | Roxana Pet                     | N/A        | 3/28/1927  | N/A        | 22 | 09N | 06E | SW | SE | SE |
| 133 | 11834 | JOHNSON     | 1 | Kingwood and<br>Roxana         | N/A        | 3/15/1927  | N/A        | 22 | 09N | 06E |    |    | SE |
| 133 | 30099 | ADWAN       | 1 | KOONTZ<br>LINDELL M            | 11/21/1983 | 12/6/1983  | N/A        | 22 | 09N | 06E | SE | SW | SE |
| 133 | 30099 | ADWAN       | 1 | Explorer Oil Co                | 4/10/1965  | 4/29/1965  | N/A        | 22 | 09N | 06E | SE | SW | SE |
| 133 | 30099 | ADWAN       | 1 | KOONTZ<br>LINDELL M            | 4/16/1965  | 9/26/1965  | N/A        | 22 | 09N | 06E | SE | SW | SE |
| 133 | 30099 | ADWAN       | 1 | Explorer Oil Co                | 9/16/1965  | 9/26/1965  | 1/6/1993   | 22 | 09N | 06E | SE | SW | SE |
| 133 | 8876  | SHAW "A"    | 1 | ARIES<br>EXPLORATION<br>CO INC | 12/5/1942  | 2/3/1943   | 4/30/1964  | 28 | 09N | 06E | NW | SW | SE |
| 133 | 9707  | SUDIE       | 1 | J.D. Campbell                  | 12/19/1939 | 1/13/1940  | N/A        | 28 | 09N | 06E | SW | NW | SE |
| 133 | 9722  | STROTHER    | 1 | The Pure Oil<br>Company        | 6/25/1929  | 9/26/1929  | 10/30/1929 | 28 | 09N | 06E | SW | NW | SE |
| 133 | 9722  | STROTHER    | 1 | Wood Oil<br>Company            | 3/21/1943  | 4/21/1943  | 5/5/1943   | 28 | 09N | 06E |    | NW | SE |
| 133 | 20197 | SHAW        | 2 | Jim Cox Oil Inc                | 12/6/1967  | 12/19/1967 | N/A        | 28 | 09N | 06E | SW | SW | SE |
| 133 | 30402 | SHAW "A"    | 2 | ARIES<br>EXPLORATION<br>CO INC | N/A        | N/A        | 4/30/1964  | 28 | 09N | 06E | SW | SW | SE |

Appendix I: Qualification(s) of Environmental Professionals

## **Environmental Professional Qualifications**

**Beatriz Santamaria** holds a M.S. in Environmental Engineering from the University of Oklahoma. As an environmental intern, she has been involved with DEQ's SCAP program working on initial and final assessments of the Armories as well as completing the final remediation reports.

**Heather Mallory** holds a Bachelors and Masters Degree in Environmental Science from the University of Oklahoma. Mrs. Mallory has 7 years experience in environmental sampling and technical studies. 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 sites in the Voluntary Cleanup Program, conducting and reviewing Targeted Brownfield Assessments, and project management of National Environmental Policy Act related activities for the Tar Creek buyout.

**Rita R. Kottke, Ph.D.**, holds a Doctorate in Environmental Science from Oklahoma State University. She is an Environmental Programs Manager with the Land Protection Division of the Oklahoma Department of Environmental Quality. She functions as the DEQ's Brownfield Coordinator, Brownfield Cleanup Revolving Loan Fund Contact, Superfund Site Redevelopment Contact, Superfund Emergency Response Contact, Land Revitalization/Reuse Contact, and as a liaison between the state, EPA, and local communities. Her responsibilities also include acting as technical project manager at various Voluntary Cleanup and Superfund sites within the state. She has been with the agency for seventeen years, working in the Superfund and Brownfields Programs. She has over seventeen years experience performing site assessments of real property. She was heavily involved in the formulation of the Brownfields Program's implementing rules, the negotiation of DEQ's Brownfield Memorandum of Agreement (MOA) with EPA, and the development of Oklahoma's Brownfield Cleanup Revolving Loan Program.

## Appendix J: Location and Legal Description



From..... To.....

28808.

WARRANTY DEED

STATE OF OKLAHOMA, SEMINOLE COUNTY, SS:

Know-All Men By These Presents: That... Maria Jackson a single woman,

part of the first part, in consideration of the sum of Fifteen Hundred, DOLLARS

in hand paid, the receipt of which is hereby acknowledged, do hereby Grant, Bargain, Sell and Convey unto

W. H. Lanfesty,

the following described real property and premises, situate in Seminole County, State of Oklahoma, to-wit:

The West Half of the North East Quarter and the North East Quarter of the North West Quarter, of Section 27, Township 9 North, Range 6 East of the Indian Base and Meridian,

together with all the improvements thereon and the 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, his heirs and assigns, forever, free, clear and discharged of and from all former grants, charges, taxes, judgments, mortgages and other liens and incumbrances of whatsoever nature.

Signed and delivered this 9th day of July, 1915.

WITNESSES:

Maria Jackson.

STATE OF OKLAHOMA, SEMINOLE COUNTY, SS:

Before me, a Notary Public in and for said County and State, on the Ninth day of July, A. D., 1915,

personally appeared Marria Jackson, a single person,

and she executed the same as her free and voluntary act and deed, for the uses and purposes therein set forth.

Witness my hand and official seal, the day and date above written, year above set forth.

Seal. My commission expires January 22nd, 1918. G. C. Hargis, Notary Public.

This instrument was filed for record on the 10 day of July, A. D., 1915, at 11:45'clock A. M.

E. I. Sebastian, County Clerk of Seminole County.

By Deputy.

57/69/195

WARRANTY DEED RECORD

& Compared

29480

FROM..... TO.....

WARRANTY DEED

STATE OF OKLAHOMA, Seminole County, ss: Know All Men by These Presents: That Maria Jackson, a single woman.....

..... part, y..... of the first part, in consideration of the sum of Fifteen Hundred..... DOLLARS

in hand paid, the receipt of which is hereby acknowledged, do..... hereby Grant, Bargain, Sell and Convey unto..... W. H. Benfesty.....

the following described real property and premises, situate in Seminole County, State of Oklahoma, to-wit:.....

The West Half of the North East Quarter and the North East Quarter of the North West Quarter, of Section 27, Township 9, North Range 6, East of the Indian Base and Meridian.

together with all the improvements thereon and the 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, his..... heirs and assigns, forever, free, clear and discharged of and from all former grants, charges, taxes, judgments, mortgages and other liens and incumbrances of whatsoever nature.....

Signed and delivered this 2nd day of August 1915

WITNESSES:

Maria Jackson

Logan

STATE OF OKLAHOMA, Seminole County, ss:

Before me, a Notary Public in and for said County and State, on the 2nd day of August A. D. 1915, personally appeared Maria Jackson, a single woman.....

and..... to me known to be the identical person..... who executed the within and foregoing instrument, and acknowledged to me that she executed the same as her free and voluntary act and deed for the uses and purposes therein set forth. Witness my hand and official seal, the day and date above written.

My commission expires January 28, 1918. G. C. Hargis Notary Public

This instrument was filed for record on the 3rd day of Aug. A. D. 1915, at 2 o'clock P. M.

By E. L. Sebastian Deputy County Clerk of Seminole County

08/02/1915

# QUIT-CLAIM DEED

V  
CS

THIS INDENTURE, Made this 2nd day of September A. D. 1915, between  
W. H. Lenfesty a single man party of the first part, and  
Maria Jackson, party of the second part.

WITNESSETH, That said party of the first part in consideration of the sum of one Dollars, to him duly paid, the receipt of which is hereby acknowledged, has remised, released and quit-claimed, and by these presents do for him self his heirs, executors, and administrators, remise, release and forever quit-claim unto the said party of the second part, and to his heirs and assigns forever all his right, title, interest, estate, claim and demand, both at law and in equity, of, in and to the following described real property and premises, situate in Seminole County, State of Oklahoma, to-wit: the west half of the north east quarter and the north east quarter of the north west quarter of section 27, township 9, north, range 6, east of the Indian Base and Meridian.

*W. H. Lenfesty*

together with all and singular hereditaments and appurtenances thereunto belonging.

To Have and to Hold, The above described premises unto the said Maria Jackson, her heirs and assigns, so that neither the said W. H. Lenfesty nor any person in his name and behalf, shall or will hereafter claim or demand any right or title or interest in or to the said premises or any part thereof; but they and everyone of them shall by these presents be excluded and forever barred.

In Witness Whereof, the said party of the first part has hereunto set his hand the day and year first above written.

Executed in the presence of

W. H. Lenfesty

### ACKNOWLEDGMENT

STATE OF OKLAHOMA, }  
Tulsa County, } SS. Before me E. G. Cunningham, a Notary Public in and for said County and State, on this 2nd day of September 1915, personally appeared W. H. Lenfesty a single man.

to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that he executed the same as his free and voluntary act and deed, for the uses and purposes therein set forth.

Witness my hand and official seal the day and date above written.

My commission expires Sept. 11 1918

E. G. Cunningham  
Notary Public.

~~(Seal)~~

### ACKNOWLEDGMENT

STATE OF OKLAHOMA, }  
County, } SS. Be It Remembered, That on this \_\_\_\_\_ day of \_\_\_\_\_ in the year of our Lord, one thousand nine hundred and \_\_\_\_\_ before me, a Notary Public in and for said County and State, personally appeared \_\_\_\_\_ and \_\_\_\_\_ to me known to be the identical person who executed the within and foregoing instrument by \_\_\_\_\_ mark in \_\_\_\_\_ presence, and in the presence of \_\_\_\_\_ and \_\_\_\_\_ as witnesses, and acknowledged to me that \_\_\_\_\_ executed the same \_\_\_\_\_ free and voluntary act and deed for the uses and purposes therein set forth.

In Witness Whereof, I have hereunto set my official signature and affixed my notarial seal the day and year first above written.

My commission expires \_\_\_\_\_ 191\_\_\_\_\_

Notary Public.

This instrument was filed for record on the 15 day of Dec. 1915, at 4 o'clock P.M.

E. L. Sebastian, County Clerk.  
By \_\_\_\_\_ Deputy.

09/02/1915

James Carter, gdn.  
Maria Jackson  
TO  
G. E. Presley

Filed for Record this 15 day of Dec A. D. 19 15  
at 4 o'clock and minutes P M.  
E. L. Sebastian  
Co. Clerk Register of Deeds.  
Fees By Deputy.

This Indenture, Made the 15th day of December nineteen hundred and Fifteen  
at Wewoka Seminole County State of Oklahoma, by and between James Carter  
the duly appointed, qualified and acting Guardian of  
Maria Jackson, a minor  
G. E. Presley party of the first part, and  
the part y of the second part,

WITNESSETH, That Whereas, on the 5th day of November 19 15, the County Court within and for the said County of Seminole  
State of Oklahoma, made an Order of Sale, authorizing the said party of the first part to sell certain real estate of the said Maria Jackson,  
a minor situated in the County of State of Oklahoma, described in said order of sale,

And Whereas, under and by virtue of said Order of Sale, and pursuant to legal notices given thereof, the said party of the first part on the 26th day of November  
A. D. nineteen hundred and 1915 sold the hereinafter described real estate specified and prescribed in said Order of Sale, subject to confirmation by said Court; for the sum of  
Sixteen Hundred (\$1600.00) ——— DOLLARS,  
to G. E. Presley he being the highest and best bidder, and that being the highest and best sum bid.

And Whereas, the said County Court, upon the due and legal return of due proceedings under the said Order of Sale made by the said party of  
the first part on the 27th day of November A. D. 19 15

did on the 9th day of December 19 15, make an order confirming said sale, and directing conveyances to be executed to the said part y of the second  
part; a certified copy of which order of confirmation was recorded in the office of the Register of Deeds of said Seminole County, within which the said land sold  
is situated, on the 15th day of December A. D. 19 15, in Book 55 on page 560 and which said order of confirmation now on file and of  
record in said County Court, and which said record thereof in said Register of Deeds office are hereby referred to and made a part of this indenture.

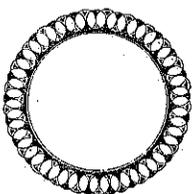
Now, Therefore the said James Carter as the Guardian of the said  
Maria Jackson, a minor  
as aforesaid, the party of the first part, pursuant to the order last aforesaid of the said County Court, and for and in  
consideration of the sum of Sixteen Hundred ——— (\$1600.00) ——— Dollars  
to him in hand paid by the said part y of the second part, the receipt whereof is hereby acknowledged, has granted, bargained, sold and  
conveyed, and by these presents does grant, bargain, sell and convey unto the said part y of the second part, his heirs and assigns forever, all the right, title, interest and  
estate of the said Maria Jackson, a minor

in and to all the certain lot, pieces or parcel of land, situated, lying and being in said County of State of Oklahoma, and bounded and particularly  
described as follows, to-wit:

The North West Quarter of the North East  
Quarter and the North East Quarter  
of the North West Quarter, of Section  
27, Township 9 North, Range 6, East  
of the Indian Base and Meridian,

together with the tenements, hereditaments and appurtenances whatsoever to the same belonging or in anywise appertaining.  
TO HAVE AND TO HOLD, all and singular, the above mentioned and described premises, unto the said part y of the second part, his heirs and assigns forever.  
In Witness Whereof, the said party of the first part, Guardian as aforesaid has hereunto set his hand the day and year first above written.  
Signed and Delivered in Presence of  
James Carter his  
Mark (his thumb) Guardian.

STATE OF OKLAHOMA, }  
County, } ss. BE IT REMEMBERED, that on this day of A. D. 19 before me,  
within and for said County and State, personally appeared as the Guardian of



to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that executed the same in the  
capacity therein stated as free and voluntary act and deed for the uses and purposes therein set forth.  
In Witness Whereof, I have hereunto set my hand and official seal, at said County, the day and year last above written.

WARRANTY DEED RECORD

NEWS-DISPATCH PLO. & AUDIT. CO., SHAWNEE, OKLA

FROM \_\_\_\_\_ TO \_\_\_\_\_

34194

WARRANTY DEED

STATE OF OKLAHOMA, Seminole County, ss.

Know All Men by These Presents: That We, G. E. Presley and Amy Presley his wife.

part V of the first part, in consideration of the sum of four thousand (\$4000.00) DOLLARS

in hand paid, the receipt of which is hereby acknowledged, do hereby Grant, Bargain, Sell and Convey unto

W. A. Bishop

the following described real property and premises, situate in Seminole County, State of Oklahoma, to-wit:

Northwest fourth (NW 1/4) of the northeast fourth (NE 1/4) and the northeast fourth (NE 1/4) of the northwest fourth (NW 1/4) of section twenty seven (27) twp. nine (9) north range six (6) east containing eighty (80) acres also lots one to fourteen inclusive in block one and lots one to four inclusive in block four to Batey Addition to Incorporated town Seminole, Seminole County, Okla. also beginning at the northeast corner of lot one block one to said Batey Addition above named running thence east 767 feet, thence south 685 feet thence west 767 feet to southeast corner of lot thirteen in block four Batey Addition above described thence north 685 feet to point of beginning all being in the northwest (NW 1/4) of the northwest (NW 1/4) of section twenty seven (27) twp. nine (9) north range six (6) east containing ninety five (95) acres.

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

To Have and to Hold, said described premises unto the said part V of the second part, his heirs and assigns, forever, free, clear and discharged of and from all former grants, charges, taxes, judgments, mortgages and other liens and incumbrances of whatsoever nature.

(Revenue stamps of \$4.00 cancelled )

Signed and delivered this 1st day of February 1916

WITNESSES:

G. E. Presley

Amy Presley.

STATE OF OKLAHOMA, Seminole County, ss:

Before me, a Notary Public in and for said County and State, on the 1st day of February 1916,

personally appeared G. E. Presley

and and Amy Presley his wife

to me known to be the identical persons who executed the within and foregoing instrument, and acknowledged to me that

they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand ~~and official seal~~ on the day and date above written.

My commission expires Dec. 18th, 1916. W. E. Harber.

Notary Public.

(Seal)

This instrument was filed for record on the 10th day of March A. D., 1916, at 8:10 o'clock A. M.

By H. A. Sweatt. Temp. Deputy. County Clerk of Seminole County.

02/01/1916

WARRANTY DEED

W. A. Bishop

The News-Dispatch Print. & Audit. Co., Shawnee, Okla.

STATE OF OKLAHOMA,

Seminole County, ss.

Know All Men by These Presents:

That We, W. A. Bishop and Almedia Bishop husband and wife,

parties of the first part, in consideration of the sum of Eight Thousand and Two Hundred (\$200.00) DOLLARS,

in hand paid, the receipt of which is hereby acknowledged, do hereby grant, bargain, sell and convey unto W. B. Gray.

the following described real property and premises, situate in Seminole County, State of Oklahoma, to-wit:

The Northeast fourth (NE 1/4) of the Northwest fourth (NW 1/4) and the Northwest fourth (NW 1/4) of the Northeast fourth (NE 1/4) of section Twenty-seven (27) Township Nine (9) North range Six (6) East.

\$8.50 revenue stamps cancelled.

together with all the improvements thereon and the 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 his heirs and assigns, forever free, clear and discharged of and from all former grants, charges, taxes, judgments, mortgages and other liens and incumbrances of whatsoever nature. Except a proportional loan to the Conservative Loan Co. of Shawnee, Okla. in the sum of \$2500.00 which grantee agrees to assume and pay with interest at 6% interest from date.

Signed and delivered this 27th day of November, 1918.

WITNESSES: W. A. Bishop Almedia Bishop

STATE OF OKLAHOMA, Seminole County, ss.

Before me, a Notary Public in and for said County and State, on this 27th day of November, 1918, personally appeared W. A. Bishop and Almedia Bishop to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand and official seal the day and date above written. (SEAL) My Commission expires Sept. 4, 1922, 19 Terry G. Smith, Notary Public.

Filed for record this 2 day of Jan. 1919 at 8. A. M.

J. M. Gloud, County Clerk.

By Deputy.

11/27/1918

601, 701

# WARRANTY DEED

The News-Dispatch Printing & Audit Co., Shawnee, Oklahoma.

STATE OF OKLAHOMA.

Seminole County, ss.

Know All Men by These Presents:

That ..... We, W. B. Gray and Cora Gray husband and wife, .....

..... part 1/3 of the first part, in consideration of the sum of ..... Four Thousand and Six (\$4600.00) ..... DOLLARS,

in hand paid, the receipt of which is hereby acknowledged, do ..... hereby grant, bargain, sell and convey unto: ..... W. C. Reed .....

the following described real property and premises, situate in Seminole County, State of Oklahoma, to-wit:

The Northeast quarter (NE $\frac{1}{4}$ ) of the Northwest quarter (NW $\frac{1}{4}$ ) of section Twenty-seven (27) Township Nine (9) North range Six (6) East

Revenue stamps \$3.00 cancelled.

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

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

Except a loan to Conservative Loan Co. of Shawnee, Okla. for \$2000.00 which grantee agrees to assume and pay with interest at 6% and commission at 1 $\frac{1}{2}$ % thereon.

Signed and delivered this ..... 19th ..... day of ..... NOV. ...., 19 19 .....

WITNESSES: ..... W. B. Gray ..... Cora Gray. .....

STATE OF OKLAHOMA, Seminole County, ss.

Before me, ..... W. A. Bishop ....., a Notary Public in and for said County and State, on this 19 .....

day of ..... November ....., 19 19 ....., personally appeared ..... W. B. Gray and Cora Gray .....

..... to me known to be the identical person ..... who executed the within and foregoing instrument, and acknowledged to me that ..... they ..... executed the same as ..... their ..... free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand and official seal the day and date above written.

(SEAL) My Commission expires ..... Aug. 15th ..... 19 23 ..... W. A. Bishop ..... Notary Public

Filed for record this ..... 2 ..... day of ..... Jan. ..... 19 20 at 1 P.M.

..... J. M. Cloud. ..... County Clerk. By ..... Deputy.

11/19/1919

#16258

WARRENTY DEED—Statutory Form

STATE OF OKLAHOMA,

Seminole County ss.

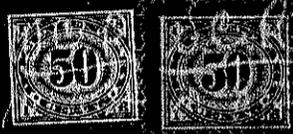
167 292

FILED FOR RECORD  
OCT 9 1924  
ELLIS COOPER  
COUNTY CLERK

KNOW ALL MEN BY THESE PRESENTS:

That We, William C. Reed and Willie Reed husband and wife

parties of the first part, in consideration of the sum of  
Three Thousand (\$3000.00) DOLLARS  
in hand paid the, receipt of which is hereby acknowledged, do hereby Grant, Bargain, Sell  
and Convey unto Herman A. Bishop the  
following described real estate property and premises, situated in Seminole County  
State of Oklahoma, to wit: The Northeast Quarter (NE $\frac{1}{4}$ ) of the Northwest  
Quarter (NW $\frac{1}{4}$ ) of section Twenty seven (27) Township Nine (9)  
North Range Six (6) East



together with all the improvements thereon and the appurtenances thereunto belonging, and war-  
rant the title to the same.

To have and hold said described premises unto the said party of the second part, his  
heir, and assigns forever, free, clear discharged of and from all former grants, taxes, judgment,  
mortgages and other liens and encumbrances of whatsoever nature;

Except a loan in the sum of Two Thousand Dollars which grantee  
agrees to assume and pay with interest thereon from this date

Signed and delivered this 8th day of Oct. 19 24

WITNESS

*William C. Reed*  
*Willie Reed*

STATE OF OKLAHOMA

County of Seminole

Before me, The Undersigned

a Notary Public in and for said County and  
State, on the 8th day of Oct. 19 24, personally appeared

William C. Reed and Willie Reed, to me known to be the identical  
persons who executed the within and foregoing instrument and acknowledged to me that they executed  
the same as their free and voluntary act and deed for the uses and purposes therein set forth.

Witness my hand, on the date above written.

My Commission Expires 1925

*[Signature]*  
Notary Public

10/08/1924

2

Book 187 page 194  
QUIT CLAIM DEED

#19135

THIS INDENTURE, Made this 16th day of Dec. in the year One Thousand, Nine  
Hundred and Twenty Four between W.B. Gray and Cora Gray  
husband and wife

Herman A. Bishop  
of the first part, and

part of the second part.

WITNESSETH, That the said parties of the first part in consideration of the sum of  
One DOLLARS,

to them duly paid, the receipt whereof is hereby acknowledged have remised, released and  
quit-claimed, and by these presents do for them vest their heirs, executors and administrators, remise, re-  
lease and forever quit-claim unto the said part of the second part, and to his heirs and assigns forever,  
all their right, title, interest, estate claim and demand, both at law and in equity, of, in, and to all

The Northeast Quarter of the Northwest Quarter of section  
Twenty seven Township line North Range Six East in Seminole County,  
State of Oklahoma



Together with all and singular hereditaments and appurtenances thereunto belonging. To have and to hold the above  
described premises unto the said Herman A. Bishop

his heirs and assigns; so that neither  
the said W.B. Gray and Cora Gray his wife  
or any person in their name and behalf, shall or will hereafter claim or demand any right or title to the  
said premises or any part thereof; but they and every one of them shall by these presents be excluded and forever barred.

In Witness Whereof, The said parties of the first part have hereunto set their hands and seal  
the day and year first above written.

WITNESSES

W.B. Gray  
Cora Gray

12/16/1924

#19716

BOOK 187 PAGE 414  
QUIT CLAIM DEED

FILED FOR RECORD  
M  
JAN 15 1925  
ELLIS C. DOOPER,  
COUNTY CLERK

THIS INDENTURE, Made this 14th day of January  
Herman A. Bishop and Opal Bishop his wife A. D., 1925, between

Homer H. Bishop

WITNESSETH, That said party is of the first, in consideration of the sum of  
one (\$1.00)

to them July past, the receipt whereof is hereby acknowledged, he, she, them, or their heirs, executors and administrators, remise, release and forever quit claim unto the said party of the second part, and their heirs forever of their right, title and interest, but no claim of title and property of, in or to the following described real property and premises, situate in Seminole County, State of Oklahoma, to wit:  
The Northeast Quarter of the Northwest Quarter of section  
Twenty seven Township Nine North Range Six East



TO HAVE AND TO HOLD the above described premises unto the said party of the second part, his heirs and assigns so that neither the said Herman A. Bishop and Opal Bishop

nor any person claiming under them, shall have or hereafter obtain any title or title of interest in or to the said premises or any part thereof, but they, their heirs, executors and administrators, forever barred.

IN WITNESS WHEREOF, I, the undersigned, a Notary Public, in and for said County and State, on this 14th day of January 1925, personally appeared Herman A. Bishop and Opal Bishop, who executed the within and foregoing instrument and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.

STATE OF OKLAHOMA, Seminole County, Oklahoma, ss.  
Before me, the undersigned, a Notary Public, in and for said County and State, on this 14th day of January 1925, personally appeared Herman A. Bishop and Opal Bishop, who executed the within and foregoing instrument and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth.  
In Witness Whereof, I have hereunto set my hand and official seal the day and year last above written.  
My Comm. expires May 3, 1928  
Addie D. Shiflet, Notary Public.

01/14/1925

20677

FILED FOR RECORD  
8-0  
FEB - 3 1925  
ELLIS COOPER,  
COUNTY CLERK

# QUIT CLAIM DEED

THIS INDENTURE Made this sixth day of February A. D., 1925, between  
Homer H. Bishop and Lois Slover Bishop, Husband and wife

....., party of the first part, and  
....., party of the second part.

WITNESSETH, That said party ies of the first, in consideration of the sum of One dollar and  
other good and valuable considerations DOLLARS,

to them duly paid, the receipt whereof is hereby acknowledged, have remised, released and quit claimed and  
by these presents to Homer H. Bishop, Lois Slover Bishop heirs, executors and administrators, remise, release and  
forever quit-claim unto the said party ies of the second part, and to their heirs and assigns forever all

right, title and interest, estate, claim and demand, both at law and in equity, of, in and to all the following described real prop-  
erty and premises situate in Seminole County, State of Oklahoma, to-wit: The North-East Quarter (NE 1/4)  
of the North-East Quarter (NE 1/4) of Section Twenty-Seven (Sec: 27)  
Township One North (T. 1 N.) Range Six East (R. 6 E) In Seminole County,  
State of Oklahoma, and containing forty acres.



together with all and singular the hereditaments and appurtenances thereunto belonging

TO HAVE AND TO HOLD the above described premises unto the said  
H. H. Bishop

heirs and assigns so that neither the said Homer H. Bishop or Lois Slover Bishop, husband  
and wife

nor any person in their name and behalf, shall or will hereafter claim or demand any right or title or interest in or  
to the said premises or any part thereof; but they and every one of them shall, by these presents, be excluded and forever barred.

IN WITNESS WHEREOF The said party ies of the first part have hereunto set their hand s the  
day and year first above written.

Executed in the presence of

*Homer H. Bishop*  
*Lois Slover Bishop*

STATE OF OKLAHOMA,  
SEMINOLE

## ACKNOWLEDGMENT

{ ss.  
County,

Before me, the undersigned, a Notary Public, in and for said County and State, on this 6th day of  
February, 1925, personally appeared Homer H. Bishop and Lois Slover  
Bishop

..... to me known to be the identical persons..... who executed the within and foregoing  
instrument and acknowledged to me that they executed the same as their free and voluntary act  
and deed for the uses and purposes therein set forth.

In Witness Whereof, I have hereunto set my hand and official seal the day and year last above written.

My Com. expires July 7th, 1928.

*Estelle M. Campbell* Notary Public.

02/06/1925

193 386  
Quit Claim Deed # 21400

4647

This Indenture, Made this 27th day of February A. D., 1926

between THE OKLAHOMA STATE BANK OF KONAWA, Oklahoma, a Corporation Parties of the first part,

and J. G. Berry

Party of the second part,

WITNESSETH, That said party of the first part, in consideration of the sum of

one and no/100 DOLLARS,

to him duly paid, the receipt of which is hereby acknowledged It has quit claimed, granted, bargained, sold and conveyed, and by these presents do for ourselves, its heirs, executors and administrators, quit claim, grant, bargain, sell and convey unto the said party of the second part and to his

heirs and assigns, forever, all of its right, title, interest, estate claim and demand both at law and equity in and to the following described property, to-wit:

The Northeast quarter of the Northwest quarter and the North Half of the Southeast quarter of the Northwest quarter of Section Ten (10) Township Six (6) North of Range Six (6) East, Seminole County, Oklahoma.

Together with all and singular hereditaments and appurtenances thereto belonging.

TO HAVE AND TO HOLD the above described premises unto the said J. G. Berry

his heirs and assigns, so that neither the said Oklahoma State Bank

or any person in its name and behalf, shall or will hereafter claim or demand any right or title to the said premises or any part thereof; but they and every one of them shall by these presents be excluded and forever barred.

IN WITNESS WHEREOF, The said party of the first part have hereunto set our hand and

seals this 27th day and year first above written.

Signed, sealed and delivered in the presence of

THE OKLAHOMA STATE BANK, a Corp. of Konawa, Oklahoma

By: *[Signature]*  
President

*[Signature]*  
cashier

0 2/27/1925

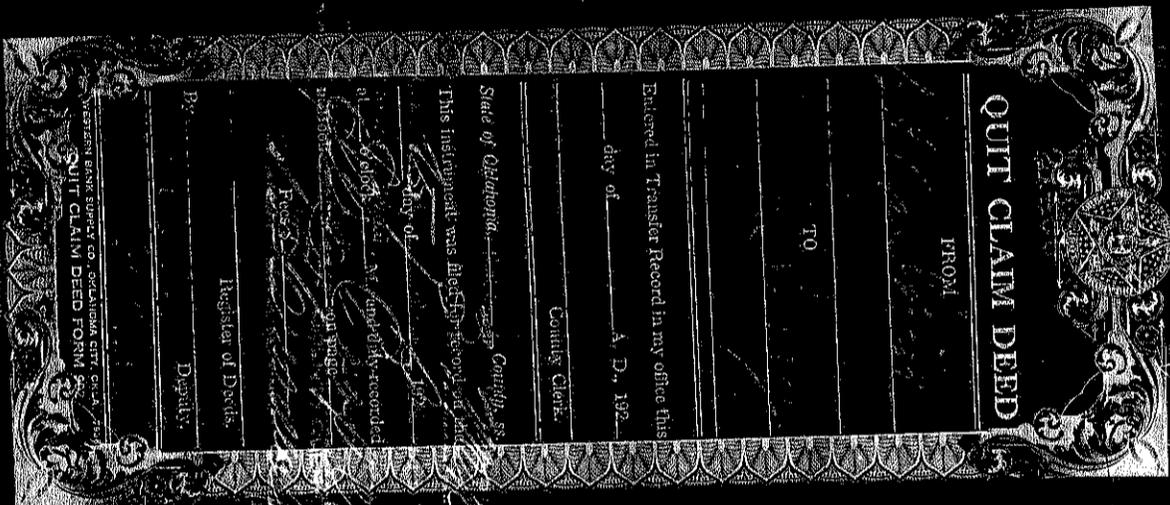
State of Oklahoma, \_\_\_\_\_ County, ss.

Before me, \_\_\_\_\_ a Notary Public, in and for said County and State, on this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared \_\_\_\_\_

to me known to be the identical person \_\_\_\_\_ who executed the within and foregoing instrument, and acknowledged to me that \_\_\_\_\_ executed the same as \_\_\_\_\_ free and voluntary act and deed for the uses and purposes therein set forth.

WITNESS my hand and official seal, the day and year above set forth.

My commission expires \_\_\_\_\_ Notary Public.



Acknowledgement of Corporation.

STATE OF OKLAHOMA } ss. Before me, a \_\_\_\_\_ Notary Public \_\_\_\_\_ in and for said County  
Seminole County }

and State, on this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared \_\_\_\_\_

\_\_\_\_\_ to me known to be the identical person who subscribed the name of

the maker thereof to the foregoing instrument as its \_\_\_\_\_ and acknowledged to me that he

had 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.

My commission expires \_\_\_\_\_ Sept. 11th. 1927 \_\_\_\_\_ Notary Public

# QUITCLAIM DEED

BOOK 343 PAGE 472

#80701

THIS INDENTURE, Made this 28th day of December in the year A. D., 1928, between Homer H. Bishop

**FILED**  
O'CLOCK P.M.

DEC 29 1928

ELLIS COUNTY Co. Clerk

of the first part, and W. A. Bishop of the second part,

WITNESSETH, That the said party of the first part, in consideration of the sum of \$1.00 One and no/100 DOLLARS

to him duly paid, the receipt whereof is hereby acknowledged, do hereby quit claim, grant, bargain, sell and convey unto the said party of the second part, and to his heirs and assigns forever, all my right, title, interest and estate, both at law and in equity, of, in and to the following described real estate situate in the County of Seminola and State of Oklahoma, to-wit:

Northeast Quarter NE $\frac{1}{4}$  of the Northwest Quarter (NW $\frac{1}{4}$ ) of Section Twentyseven (27), Township Nine (9) north, Range Six (6) East and the Southwest Quarter (SW $\frac{1}{4}$ ) of the Southwest Quarter (SW $\frac{1}{4}$ ) of Section Twentytwo (22), Township Nine (9) North, Range Six (6) East Minus eight (8) acres in the Southwest Corner of the above described tract of land which belongs to one, Ida M. Mayhue.

The above land being no part or partial of grantors homestead

Together with all and singular the hereditaments and appurtenances thereunto belonging. To have and to hold the above granted premises unto the said party of the second part his heirs and assigns forever.

IN WITNESS WHEREOF, The said party of the first part has hereunto set his hand the day and year first above written.

Signed, Sealed and Delivered in the presence of

*Homer H. Bishop*

STATE OF OKLAHOMA, COUNTY OF Seminola, ss:

Before me, Mary Ellen Hatcher, a Notary Public in and for said County and State, on this 28th day of December 1928, personally appeared Homer H. Bishop and W. A. Bishop

to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that they executed the same as their free and voluntary act and deed for the uses and purposes therein set forth. Witness my hand and seal the day and year above set forth.

*Mary Ellen Hatcher*  
Notary Public

My commission expires Dec 17 - 32



12/28/1928



BOOK PAGE

BOOK PAGE

BOOK PAGE

81211

WHEREAS, said party of the second part has been duly authorized by the property tax-paying voters of the City of Seminole, to purchase property suitable for park and play ground purposes, and to equip and improve the same.

NOW, THEREFORE, IT IS AGREED BETWEEN THE PARTIES HERETO: That Party of the First Part hereby sells, assigns, transfers and delivers over to Party of the Second Part, his fee simple title to all of the surface rights of the above described premises, reserving only to said Party of the First Part his oil and gas mining rights under with the privilege of ingress and egress on and across said land for the purpose of developing said oil and gas, said lease, and in this connection, first party agrees for himself, his successors or assigns, that in the event of drilling for or developing said premises for any part thereof for oil, gas or coal, his successors or assigns, say to said Party of the Second Part, say and all demands which may be sustained by reason of any such drilling or developing, or operations for oil and gas.

IT IS ALSO AGREED BETWEEN THE PARTIES HERETO: That the value of said premises, together with the construction of a dam thereon, as hereinafter specified, is thirty-two thousand dollars (\$32,000.00) which Party of the Second Part agrees to pay and Party of the First part to accept.

IT IS FURTHER AGREED BETWEEN THE PARTIES HERETO: That as a part of the consideration for this instrument, the Party of the First Part agrees to construct and carry the construction of said property above described said dam to extend from the west bluff to the east bluff, and to be approximately 600 feet in length, at a location to be selected by the City Engineer of the City of Seminole and approved by the Mayor and the City Council; That said dam is to be constructed, as follows: In addition to being <sup>approximately</sup> 600 feet long, by 17 feet high, with a top of approximately 35 feet, and ~~approximately~~ 10 feet on low; to have a rectangular clay center which shall commence in the clay basin under the surface of said land, and to be of the thickness of five (5) feet, and to extend to the top of said dam above named.

IT IS FURTHER AGREED: That Party of the First Part will erect on the North side of said dam, what is known as rock lip on said

said rock to extend from the base or bottom and to completely cover the North side of said dam, from the bottom to the top, and to be twelve (12) inches in thickness.

IT IS THE ORDER OF THE BOARD OF SUPERVISORS: That in the construction of said dam, the City of San Diego shall have supervision of the same and that the said City Engineer, together with the Mayor and Council shall approve the quality of clay, rock and other materials used in the construction of said dam, and that when said dam is completed, it shall be composed of first-class material and workmanship.

IT IS THE ORDER OF THE BOARD OF SUPERVISORS: That the work shall begin on the construction of said dam not later than the 28th day of April, 1909, and shall be prosecuted with due diligence to completion, and shall be completed within one hundred fifty (150) working days after commencement of the work.

IT IS THE ORDER OF THE BOARD OF SUPERVISORS: That the First Party of the First Part is to have Ninety (90) days to remove any and all buildings which he has erected from the above described premises, except the Milling Station, and three room house, located on lots 1, 2, 3, & 4.

IT IS THE ORDER OF THE BOARD OF SUPERVISORS: That the First Party is to have all crops growing on said lands, to wit: 1909, to wit: that he will remove the same from said premises by the time said dam is completed.

IT IS THE ORDER OF THE BOARD OF SUPERVISORS: That if, and when, said dam is completed, and the lands herein described have been covered by the water, to furnish a lake, for which purpose said dam is to be constructed, that if any abutment foundation or cover any additional lands of property of the First Party, up-stream from said dam, or extending north on the side of said lake, that party of the First Part, to wit: the said, his heirs, executors or assigns, hereby waives any and all claims, right, title, claim or would accrue to him by any such condition of inundation or over-flow, and in this case, said First Party does agree that such water not be polluted, or in anywise damage the water in said lake.

This stipulation shall not be a personal obligation on the Party of the First Part <sup>after</sup> ~~but~~ and when he conveys said lands,

*but* the same shall be binding on his heirs, administrators, executors, and assigns, as covenants running with the lands.

IT IS FURTHER AGREED: That Party of the First Part will execute a warranty deed conveying the surface rights to Party of the Second Part on the above described lands, according to the terms of this contract, and that said deed, together with a copy of this contract shall be delivered in escrow to the First National Bank of Seminole, Oklahoma to be held by it as escrow agent until the full performance of the terms of this contract by both parties.

PARTY OF THE SECOND PART AGREES to pay to the Party of the First Part five (5) days after the monies are available from the sale of "Seminole City Park Bonds of 1930", the sum of Eight Thousand Dollars (\$8000.00); That when one-half (1/2) of the work of constructing said dam has been completed, to pay an additional Eight Thousand Dollars (\$8000.00); That when three-fourths (3/4) of said work has been completed, it will pay another Eight Thousand (\$8000.00) Dollars; the remaining Eight Thousand (\$8000.00) Dollars will be paid when said dam has been completed and accepted by the said City of Seminole.

IT IS FURTHER AGREED AND UNDERSTOOD BETWEEN THE PARTIES HERETO: That the stipulations and agreements contained in this contract shall be covenants running with the lands, and shall bind said Party of the First Part, his heirs, executors, administrators and assigns, and that the stipulations and agreements contained in this contract shall be considered in connection with, and as a part of the warranty deed which First Party will execute to Party of the Second Part as herein stipulated.

IT IS FURTHER UNDERSTOOD: That Party of the First Part shall have the privilege of obtaining dirt, with which to construct said dam at any point within the basin of said <sup>land</sup> ~~dam~~, which will be under water.

TO THE FAITHFUL PERFORMANCE of these covenants and agreements, the parties hereto have this day hereunto set their hands and seals.

W. W. Bishop

FREE PARTY

THE CITY OF SEMINOLE, MUNICIPAL CORPORATION

BY J. N. Horber  
Mayor of the Second Part.

[Signature]

STATE OF OKLAHOMA,  
COUNTY OF SEMINOLE,

We, the undersigned, constituting the duly appointed, qualified and acting, Board of Park Commissioners of the City of Seminole, Oklahoma, do hereby certify and approve the above and foregoing contract.

Dated this 1 day of Dec, 1931.

W. F. Matthews

[Signature]

BOARD OF PARK COMMISSIONERS.

Subscribed and sworn to before me, a Notary Public for said County and State, this first day of December, 1931.

Carroll M. Watson  
Notary Public.

My Commission expires April 24th, 1934.

[Signature]

DEC 4 1931

CLERK OF COURT, Co. Clerk  
SEMINOLE COUNTY

DEED

INDEXED

10312



Know All Men By These Presents:

Porter-Kelly Post No. 204, Inc., The American Legion, Department of Oklahoma, Seminole, Oklahoma, a non-profit corporation, organized and existing under the laws of the State of Oklahoma, formerly, The American Legion, Jonah-Porter Post No. 204, Seminole, Oklahoma, of Seminole County, State of Oklahoma, pursuant to the provision of Senate bill No. 233 of the Twenty-Fourth (24th) session of the Oklahoma Legislature and further pursuant to a resolution duly adopted by Porter-Kelly Post No. 204, Inc., The American Legion, Department of Oklahoma, Seminole, Oklahoma, on 12 October 1953, but subject to the acceptance by the Adjutant General of the Military Department of the State of Oklahoma, the said Porter-Kelly Post No. 204, Inc., The American Legion, Department of Oklahoma, Seminole, Oklahoma, as Grantor, does hereby Quit Claim grant, bargain, sell and convey unto The State of Oklahoma, as Grantee, subject to the reversionary clause hereinafter set forth, all of the following described real property and premises, lying and situate in the Northwest Quarter (NW/4) of the Northwest Quarter (NW/4) of Section twenty-seven (27), Township Nine (9) North, Range Six (6) East, Seminole County, Oklahoma, as follows:

Beginning at a point that is One Thousand Seven Hundred Ninety-six Feet (1,796') East and Thirty-three Feet (33') South of the Northwest (NW) corner of Section twenty-seven (27), Township Nine (9) North, Range Six (6) East, thence Two Hundred Twenty-five Feet (225') South, thence Three Hundred Twenty-five Feet (325') East, thence Two Hundred Twenty-five Feet (225') North, thence Three Hundred Twenty-five Feet (325') West to point of beginning;

together with all the improvements thereon and the appurtenances thereunto belonging.

To Have and To Hold the same unto the said Grantee, its successors and assigns forever, for the uses and purposes set forth in Senate bill No. 233, but upon abandonment for said uses and purposes the above described property shall revert to Grantor, its successors and assigns.

Signed and delivered this nineteenth (19th) day of November 1953.

Porter-Kelly Post No. 204, Inc.,  
The American Legion, Department of Oklahoma  
Seminole, Oklahoma

Attest:

*Fred B. Sudduth*  
Fred B. Sudduth

By *Charles Sims*, Commander-President  
Adjutant-Secretary, Commander-President  
Adjutant-Secretary

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State of Oklahoma  
County of Seminole

ACKNOWLEDGMENT

Before me, a Notary Public in and for said state on this nineteenth (19th) day of November 1953, personally appeared Charles Sims, to me known to be the identical person who subscribed the name of Porter-Kelly Post No. 204, Inc., The American Legion, Department of Oklahoma, Seminole, Oklahoma to the foregoing Deed, as its Commander-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 Porter-Kelly Post No. 204, Inc., The American Legion, Department of Oklahoma, Seminole, Oklahoma, for the uses and purposes therein set forth.

Witness my hand and seal the day and year next above written.

*Barbara Mode*, Notary Public  
Barbara Mode, Notary Public

My Commission Expires: 1 September 1957

(Seminole Armory Site)

Approval of the acceptance of the within and foregoing deed by the Adjutant General of the Military Department of the State of Oklahoma is hereby given, this 17 day of July 1935

GOVERNOR OF THE STATE OF OKLAHOMA

ATTN: (SEAL)



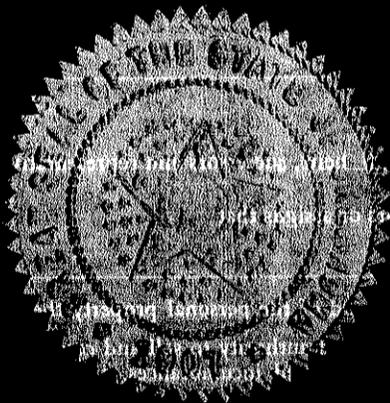
Secretary of State

pursuant to such approval thereof by the Governor, and in accordance with the provisions of Senate Bill No. 233 of the Regular Session of the Twenty-Fourth (1935) Oklahoma Legislature (47 Okla. St. Ann. § 233.1 through 233.5), the within and foregoing conveyance is hereby accepted by

me, upon behalf of the State of Oklahoma, this 17 day of July,

1935

Adjutant General  
State of Oklahoma



31  
17

WARRANTY DEED

F #11043

COMPARED

County Office Supply, Tulsa

Filed for record this 10 day of April, 1946, at 8 o'clock A.M., duly recorded in Book 670

Ruby Roberts, County Clerk
By: Alda B. Ratliff, Deputy

REMOVED FROM RECORD

KNOW ALL MEN BY THESE PRESENTS:

That City of Seminole, Oklahoma, a municipal corporation, 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 Seminole County, State of Oklahoma of the first part, in consideration of the sum of One thousand and no/100 dollars (\$1,000.00)

in hand paid, the receipt of which is hereby acknowledged, do hereby grant, bargain, sell and convey unto The American Legion Jonah-Porter Post No. 204, Seminole, Okla., of Seminole County, State of Oklahoma, party of the second part the following described real property and premises situate in Seminole County, State of Oklahoma, to-wit:

Surface Rights Only
Starting at a point 550 feet East of the Northwest corner Lot 1, Block 1, Bishop Addition, thence East 900 feet, thence South 750 feet thence, West 900 feet; thence North 750 feet to the point of beginning, containing 15 acres more or less. And a 20 foot easement for utility purposes running North from the alley between sixth and seventh streets to above tract of land. (It is understood and agreed that this deed covers surface rights only)

\$1.10 rev. stamps cancelled

together with all the improvements thereon and the 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 their heirs and assigns, forever, free, clear and discharged of and from all former grants, charges, taxes, judgments, mortgages, and other liens and incumbrances of whatsoever nature. Reserving unto City of Seminole, Oklahoma, a 20 foot easement for utility purposes and except any and all pipeline easements or right of ways heretofore granted.

In Witness Whereof, the said party of the first part hereto has caused these presents to be signed in its name by its Mayor, its corporate seal affixed, and attested by its City Clerk at Seminole, Oklahoma this 26th day of March, 1946.

Attest: Herman C. Sullivan, City Clerk, Corp. Seal
J.C. Cravens, Mayor

STATE OF OKLAHOMA,

County of, ss:

Before me, a Notary Public in and for said County and State, on this day of 19, personally appeared and to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that executed the same as free and voluntary act and deed for the uses and purposes therein set forth.

My commission expires, 19 (SEAL) Notary Public

STATE OF OKLAHOMA, COUNTY OF SEMINOLE, SS:
On this 26th day of March, A.D. 1946, before me, the undersigned, a Notary Public in and for the county and state aforesaid, personally appeared J.C. Cravens, to me known to be the identical person who signed the name of the maker thereof to the within and foregoing instrument as its Mayor and acknowledged that he executed the same as his free and voluntary act and deed, and as the free and voluntary act and deed of said corporation, for the uses and purposes therein set forth. Given under my hand and seal the day and year last above written.
Seal My commission expires 2/14/48 Gus Hamilton Notary Public

## Appendix K: ERNS Data

**RCRA NOTIFIERS LISTING**  
 Source: USEPA RCRAInfo Database

State of: **OKLAHOMA**

| EPA-ID  | FACILITY NAME                  | LOCATION ADDRESS         | CITY     | ZIP   | COUNTY/<br>PARISH | S T L             |             |                  | RECEIVED<br>DATE |
|---|--------------------------------|--------------------------|----------|-------|-------------------|-------------------|-------------|------------------|------------------|
|   |                                |                          |          |       |                   | G<br>E<br>N       | R<br>A<br>N | O<br>O<br>P<br>N |                  |
| OKD982759219  | A-1 CLNRS                      | 100 BLK N ELM            | OOLOGAH  | 74053 | ROGERS            | 7                 |             | P                | 07/12/89         |
| Contact: ED LONG Mailing Adrs: PO BOX 1269, CLAREMORE, OK 74018           |                                |                          |          |       |                   | Phone: 9183418544 |             |                  |                  |
| OKD987068707  | A1 CLNRS                       | HWY 169N N OF COOWEESCOO | OOLOGAH  | 74053 | ROGERS            | 3                 |             | P                | 09/11/89         |
| Contact: ANN BLEDSAW Mailing Adrs: PO BOX 1269, CLAREMORE, OK 74018       |                                |                          |          |       |                   | Phone: 9184439495 |             |                  |                  |
| OKD080599210  | AEP-PSO NORTHEASTERN STATION 3 | 7300 E HWY 88 & JUNC HWY | OOLOGAH  | 74053 | ROGERS            | 3                 |             | P P P            | 08/29/04         |
| Contact: SHARON BUTTS Mailing Adrs: PO BOX 220, OOLOGAH, OK 74053         |                                |                          |          |       |                   | Phone: 9185810802 |             |                  |                  |
| OK0000875427  | NORTHEASTERN STATION-N SIDE-UN | 7300 E HWY 88            | OOLOGAH  | 74053 | ROGERS            | 3                 |             | P P P            | 02/07/07         |
| Contact: MARK RADZINSKI Mailing Adrs: 7300 E HWY 88, OOLOGAH, OK 74053    |                                |                          |          |       |                   | Phone: 9185993106 |             |                  |                  |
| OK1960010014  | US ARMY COE OOLOGHA PROJECT OF | HWY 169 2M SE            | OOLOGAH  | 74053 | ROGERS            | 3                 |             | F                | 04/06/92         |
| Contact: JAMES HARRIS Mailing Adrs: RT 1 BOX 1610, OOLOGAH, OK 74053      |                                |                          |          |       |                   | Phone: 9185817356 |             |                  |                  |
| OKD987082104  | COMMERCIAL RESINS CO INC.      | 2001 N 170TH E AVE       | TULSA    | 74116 | ROGERS            |                   |             | P P              | 03/13/01         |
| Contact: STEVE CARLSON Mailing Adrs: 2001 N 170TH E AVE, TULSA, OK 74116  |                                |                          |          |       |                   | Phone: 9184386522 |             |                  |                  |
| OKD064558703  | LAFARGE BUILDING MATERIALS INC | 2609 N 145TH E AVE       | TULSA    | 74116 | ROGERS            | 3                 |             | P P P            | 07/06/09         |
| Contact: JAMES BACHMAN Mailing Adrs: 2609 N 145TH E AVE, TULSA, OK 74116  |                                |                          |          |       |                   | Phone: 9184373902 |             |                  |                  |
| OKD000763821  | SAFETY-KLEEN SYSTEMS, INC      | 16319 E MARSHALL ST      | TULSA    | 74116 | ROGERS            | 1                 | Y           | ---S- P P P      | 04/28/10         |
| Contact: AMIE GRONBERG Mailing Adrs: 16319 E MARSHALL ST, TULSA, OK 74116 |                                |                          |          |       |                   | Phone: 9183551589 |             |                  |                  |
| OKR000021964  | TULSA METAL FINISHING CO       | 1705 N 166TH E AVE       | TULSA    | 74116 | ROGERS            | 3                 |             | P P P            | 06/19/07         |
| Contact: MARK A KENNEDY Mailing Adrs: 1705 N 166TH E AVE, TULSA, OK 74116 |                                |                          |          |       |                   | Phone: 9186095410 |             |                  |                  |
| OKD000758649  | KOCH PIPELINE CO LP-WOLF       | 7 MI S ON OLD HWY 99     | BOWLEGS  | 74830 | SEMINOLE          | 3                 |             | P P              | 05/21/96         |
| Contact: JIM HENRY Mailing Adrs: 14101 ACME, SHAWNEE, OK 74801            |                                |                          |          |       |                   | Phone: 4058784113 |             |                  |                  |
| OKD000758060  | MID-CONTINENT PIPELINE CO CROM | S OF CITY                | CROMWELL | 74837 | SEMINOLE          | 6                 |             |                  | 08/18/80         |
| Contact: LEE MYERS Mailing Adrs: RT 2 BOX 43, SEMINOLE, OK 74868          |                                |                          |          |       |                   | Phone: 4053820626 |             |                  |                  |
| OKP410178549  | ODOT BRIDGE B, #20990(04)      | SH-3E OVER JUMPER CREEK  | KONAWA   | 74849 | SEMINOLE          | 4                 |             | S S S            | 05/10/10         |
| Contact: LAWRENCE J HAWKINS Mailing Adrs: ODOT, ADA, OK 74820             |                                |                          |          |       |                   | Phone: 4055213026 |             |                  |                  |
| OKD000763516  | OG&E SEMINOLE GENERATING STATI | RT 2 BOX 18A             | KONAWA   | 74849 | SEMINOLE          | 6                 |             | P P P            | 04/28/10         |
| Contact: DANNY FREEMAN Mailing Adrs: RT 2 BOX 18A, KONAWA, OK 74849       |                                |                          |          |       |                   | Phone: 4055538642 |             |                  |                  |
| OKD000758706  | KOCH PIPELINE CO LP-ROACH      | 1/5 MILE W ON COLLEGE ST | NEW LIMA | 74884 | SEMINOLE          | 3                 |             | P P              | 05/21/96         |
| Contact: JIM HENRY Mailing Adrs: 14101 ACME, SHAWNEE, OK 74801            |                                |                          |          |       |                   | Phone: 4058784113 |             |                  |                  |
| OKD000758078  | MID-CONTINENT PIPELINE CO CULL | S OF CITY                | SASAKWA  | 74867 | SEMINOLE          | 6                 |             |                  | 08/18/80         |
| Contact: LEE MYERS Mailing Adrs: RT 2 BOX 43, SEMINOLE, OK 74868          |                                |                          |          |       |                   | Phone: 4053820626 |             |                  |                  |
| OKD033088006  | ACME CLNRS INC                 | 224 MILT PHILLIPS        | SEMINOLE | 74868 | SEMINOLE          | 7                 |             | P                | 10/09/86         |
| Contact: JOE ELMORE Mailing Adrs: 224 MILT PHILLIPS, SEMINOLE, OK 74868   |                                |                          |          |       |                   | Phone: 4053824246 |             |                  |                  |
| OKD980623086  | ARCO OIL & GAS SEMINOLE GAS PL | 2M S 1M E HWY 99         | SEMINOLE | 74868 | SEMINOLE          | 7                 |             | P P              | 10/30/80         |
| Contact: J-HOWARD RANKING Mailing Adrs: PO BOX 472, SEMINOLE, OK 74868    |                                |                          |          |       |                   | Phone: 4053823049 |             |                  |                  |

**RCRA NOTIFIERS LISTING**  
 Source: USEPA RCRAInfo Database

State of: **OKLAHOMA**

| EPA-ID       | FACILITY NAME  | LOCATION ADDRESS  | CITY     | ZIP   | COUNTY/<br>PARISH | S T L |           |            |          |
|--------------|--|---|----------|-------|-------------------|-------|-----------|------------|----------|
|              |  |   |          |       |                   | G R   | O O A     | OPER W P N | RECEIVED |
|              |  |   |          |       |                   | N N   | N T S D F | N R D      | DATE     |
| OKR000019109 | ARROW PUMP & SUPPLY<br>Contact: CHRIS W POGUE              | 101 N MAIN<br>Mailing Adrs: PO DRAWER 1070, SEMINOLE, OK 74818                      | SEMINOLE | 74818 | SEMINOLE          | 3     |           | P P P      | 09/24/03 |
| OKD007464894 | B & L ELECTRIC CO<br>Contact: TOM LILLY                    | 210 N 4TH<br>Mailing Adrs: PO DRAWER 1748, SEMINOLE, OK 74868                       | SEMINOLE | 74868 | SEMINOLE          | 7     |           | P          | 07/18/95 |
| OKD410010524 | BAROID DRILLING FLUIDS<br>Contact: D ROBERTS               | 100 S MAIN<br>Mailing Adrs: BOX 1237, SEMINOLE, OK 74868                            | SEMINOLE | 74868 | SEMINOLE          | 8     |           |            | 12/04/80 |
| OKD065433070 | BJ SVCS<br>Contact: DAVID DUNCAN                           | SHAWNEE HIGHWAY<br>Mailing Adrs: PO BOX 111, SEMINOLE, OK 74818                     | SEMINOLE | 74818 | SEMINOLE          | 7     |           | P          | 08/18/80 |
| OKD008933061 | CANADIAN VALLEY ELECTRIC COOPE<br>Contact: PAUL FESLER     | JCT I-40 & H-99 10M N<br>Mailing Adrs: PO BOX 751, SEMINOLE, OK 74868               | SEMINOLE | 74868 | SEMINOLE          |       |           | P O        | 02/02/81 |
| OKD020710356 | DOWELL SCHLUMBERGER INCORPORAT<br>Contact: BOLAND GORDON   | RT 270 E<br>Mailing Adrs: BOX 1340, SEMINOLE, OK 74868                              | SEMINOLE | 74868 | SEMINOLE          | 6     |           |            | 08/14/80 |
| OKD065428732 | DRESSER ATLAS DIVISION OF DRES<br>Contact: MICHAEL MOSELEY | P O BOX 1302<br>Mailing Adrs: P O BOX 1407, HOUSTON, TX 77001                       | SEMINOLE | 74868 | SEMINOLE          | 7     |           | P          | 08/18/80 |
| OKR000001693 | DYES PAINT AND BODY<br>Contact: JERRY NELSON               | 1107 N MAIN ST<br>Mailing Adrs: PO BOX 6, SEMINOLE, OK 74868                        | SEMINOLE | 74868 | SEMINOLE          | 7     |           | P P        | 10/19/98 |
| OKR000021246 | ENVIRO SYSTEMS INC<br>Contact: WILLIAM FROELICH            | 12037 N HWY 99<br>Mailing Adrs: 12037 N HWY 99, SEMINOLE, OK 74868                  | SEMINOLE | 74868 | SEMINOLE          | 2     |           | M P P      | 08/23/06 |
| OKR000015982 | FORMER WAL-MART STORE # 123<br>Contact: TERESA WEISINGER   | 1600 N MILT PHILLIPS BLVD<br>Mailing Adrs: 702 SW 8TH STREET, BENTONVILLE, AR 72716 | SEMINOLE | 74868 | SEMINOLE          | 7     |           | P P        | 02/18/09 |
| OKD987088325 | GOFF CORP<br>Contact: SHELLY D TRAMELL                     | 12216 NS 3520<br>Mailing Adrs: PO BOX 1607, SEMINOLE, OK 74868                      | SEMINOLE | 74868 | SEMINOLE          | 3     |           | P P P      | 02/04/08 |
| OKD148713183 | HALLIBURTON SVCS<br>Contact: FRED GUILN                    | HWY 270 3M E<br>Mailing Adrs: PO BOX 1220, SEMINOLE, OK 74868                       | SEMINOLE | 74868 | SEMINOLE          | 3     |           | P          | 04/12/89 |
| OKD053714135 | HAYES AXLE INC - DELAWARE CORP<br>Contact: LINDA NORTON    | 307 A ST<br>Mailing Adrs: 307 A STREET, SEMINOLE, OK 74868                          | SEMINOLE | 74868 | SEMINOLE          | 6     |           | P P        | 07/31/95 |
| OKR000013540 | HOOTEN OIL CO<br>Contact: DAVID HOOTEN                     | 1.5 M S OF TOWN ON HWY 3<br>Mailing Adrs: RT 1 BOX 27, SEMINOLE, OK 74868           | SEMINOLE | 74868 | SEMINOLE          |       |           | P P        | 08/27/99 |
| OKD098330228 | KBK INDUSTRIES INC<br>Contact: WILLIAM COLE                | 2100 LILLY ST<br>Mailing Adrs: 2100 LILLY ST, SEMINOLE, OK 74868                    | SEMINOLE | 74868 | SEMINOLE          | 7     |           | P O        | 08/18/80 |
| OKR000026070 | KBK INDUSTRIES SEMINOLE<br>Contact: TOM L BROOKS           | 12223 NS 3580<br>Mailing Adrs: RT 5 BOX 40, SEMINOLE, OK 74868                      | SEMINOLE | 74868 | SEMINOLE          | 3     |           | P P C      | 05/26/10 |
| OKD000758771 | KOCH PIPELINE CO LP-OLYMPIC<br>Contact: JIM HENRY          | 9 MI E OF SEMINOLE HWY 4<br>Mailing Adrs: 14101 ACME, SHAWNEE, OK 74801             | SEMINOLE | 74868 | SEMINOLE          | 3     |           | P P        | 05/21/96 |

RCRA NOTIFIERS LISTING

Source: USEPA RCRAInfo Database

Report run on: August 23, 2010 8:19 AM

Report Title: 06h\_notifiers\_list\_v5.rdf

State of: OKLAHOMA

| EPA-ID       | FACILITY NAME   | LOCATION ADDRESS   | CITY     | ZIP   | COUNTY/<br>PARISH | S T L       |             |                                 | RECEIVED<br>DATE              |
|--------------|---|--|----------|-------|-------------------|-------------|-------------|---------------------------------|-------------------------------|
|              |   |  |          |       |                   | G<br>E<br>N | R<br>A<br>N | O<br>O<br>P<br>T<br>S<br>D<br>F |                               |
| OKT410010672 | M-I DRILLING FLUIDS CO-SEMINOL<br>Contact: ARTHUR-J LEUTERMAN | E OF MAIN ST ON OSAGE<br>Mailing Adrs: PO BOX 42842, HOUSTON, TX 77242       | SEMINOLE | 74868 | SEMINOLE          | 6           |             | P                               | 11/19/80<br>Phone: 7139725765 |
| OKD000726109 | MODERN OIL CO INC<br>Contact: OIL MODERN                      | 900 N MILT PHILLIPS<br>Mailing Adrs: 900 N MILT PHILLIPS, SEMINOLE, OK 74868 | SEMINOLE | 74868 | SEMINOLE          | 6           |             |                                 | 08/18/80<br>Phone:            |
| OK0000351445 | OG & E ELECTRIC SRVCS<br>Contact: MICHAEL HUGHES              | 1708 HWY 9 W<br>Mailing Adrs: PO BOX 1688, SEMINOLE, OK 74818                | SEMINOLE | 74868 | SEMINOLE          | 3           |             | P                               | 10/30/95<br>Phone: 4052723247 |
| OKR000021477 | PARKS MANUFACTURING INC<br>Contact: SHAWN PIPKINS             | 711 BOREN BLVD<br>Mailing Adrs: 711 BOREN BLVD, SEMINOLE, OK 74868           | SEMINOLE | 74868 | SEMINOLE          | 2           |             | P P P                           | 11/07/06<br>Phone: 4053820349 |
| OKD981586845 | RIVER VALLEY ENTERPRISES<br>Contact: MARSHALL HAVNER          | 189 SPORTSMANS LAKE RD<br>Mailing Adrs: 1260 W FRESNO ST, LINDSAY, CA 93247  | SEMINOLE | 74868 | SEMINOLE          | 7           |             | P                               | 08/05/86<br>Phone: 2095626683 |
| OKD054897301 | RUNGE J A CO#<br>Contact: C CAMPBELL                          | 415 A ST<br>Mailing Adrs: 415 A STREET, SEMINOLE, OK 74868                   | SEMINOLE | 74868 | SEMINOLE          | 6           |             | P                               | 08/15/80<br>Phone: 4053824600 |
| OK0000888156 | SEMINOLE DRY CLEANERS<br>Contact: BILLY WILLIAMS              | 214 MILT PHILLIPS<br>Mailing Adrs: 214 MILT PHILLIPS, SEMINOLE, OK 74868     | SEMINOLE | 74868 | SEMINOLE          | 6           |             | P O                             | 04/08/02<br>Phone: 4053826224 |
| OKD981590292 | SEMINOLE FORD MERCURY<br>Contact: RICK MAGGARD                | 2222 N MILT PHILLIPS<br>Mailing Adrs: PO BOX 1567, SEMINOLE, OK 74868        | SEMINOLE | 74868 | SEMINOLE          | 2           |             | P P                             | 01/05/07<br>Phone: 4053822222 |
| OKD074278771 | SEMINOLE MUNICIPAL HOSPITAL<br>Contact: FRAYE SCHNEIDERJAN    | 606 W EVANS<br>Mailing Adrs: 606 W EVANS, SEMINOLE, OK 74868                 | SEMINOLE | 74868 | SEMINOLE          | 6           |             | M                               | 04/17/86<br>Phone: 4053820600 |
| OKD059070326 | SHERWIN WILLIAMS CO<br>Contact: TERRY MORS                    | 312 N MAIN ST<br>Mailing Adrs: PO BOX 1603, SEMINOLE, OK 74868               | SEMINOLE | 74868 | SEMINOLE          | 6           |             | P O                             | 08/18/80<br>Phone: 2165663096 |
| OKD059613018 | SOONER CHEMICAL<br>Contact: HARLIN SHIELDS                    | HWY 99 2M S<br>Mailing Adrs: PO BOX 711, SEMINOLE, OK 74868                  | SEMINOLE | 74868 | SEMINOLE          | 7           |             | P                               | 04/17/87<br>Phone: 4053822000 |
| OKD000727933 | SUN OIL CO CULLY A & B<br>Contact: GM EUBANKS                 | 3M S & 2M E OF SASAKWA<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102         | SEMINOLE | 74848 | SEMINOLE          | 6           |             | P                               | 08/18/80<br>Phone: 9184967384 |
| OKD000727941 | SUN OIL CO CULLY WPM FACILITY<br>Contact: GM EUBANKS          | 3M S & 2M E OF SASAKWA<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102         | SEMINOLE | 74848 | SEMINOLE          | 6           |             | P                               | 08/18/80<br>Phone: 9184967384 |
| OKD000728030 | SUN OIL CO D F FLEET<br>Contact: GM EUBANKS                   | 3M S & 2M E OF SASAKWA<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102         | SEMINOLE | 74848 | SEMINOLE          | 6           |             | P                               | 08/18/80<br>Phone: 9184967384 |
| OKD000727974 | SUN OIL CO DAVIS J EARLSBORO<br>Contact: GM EUBANKS           | 3M N & 1M E OF MAUD<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102            | SEMINOLE | 74848 | SEMINOLE          | 6           |             | P                               | 08/18/80<br>Phone: 9184967384 |
| OKD000727982 | SUN OIL CO DAVIS LINE INJECTIO<br>Contact: GM EUBANKS         | 3M N & 1MI E OF MAUD<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102           | SEMINOLE | 74854 | SEMINOLE          | 8           |             | P                               | 08/18/80<br>Phone: 9184967384 |
| OKD000727990 | SUN OIL CO DAVIS M #5<br>Contact: GM EUBANKS                  | 3M N & 3M E OF MAUD<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102            | SEMINOLE | 74854 | SEMINOLE          | 6           |             | P                               | 08/18/80<br>Phone: 9184967384 |

**RCRA NOTIFIERS LISTING**  
 Source: USEPA RCRAInfo Database

State of: **OKLAHOMA**

| EPA-ID       | FACILITY NAME  | LOCATION ADDRESS   | CITY     | ZIP   | COUNTY/<br>PARISH | S T L       |   |                                      | RECEIVED<br>DATE |                   |
|--------------|--|--|----------|-------|-------------------|-------------|---|--------------------------------------|------------------|-------------------|
|              |  |  |          |       |                   | G<br>E<br>N | R<br>O<br>P<br>E<br>R<br>T<br>S<br>D<br>F | O<br>O<br>A<br>W<br>P<br>N<br>R<br>D |                  |                   |
| OKD000728121 | SUN OIL CO DICKIE JOHNSON<br>Contact: GM EUBANKS     | 1M N & 3M E OF KONAWA<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102    | SEMINOLE | 74801 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000728097 | SUN OIL CO EMILY INGRAM<br>Contact: GM EUBANKS       | 3M W OF SEMINOLE<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102         | SEMINOLE | 74801 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000727958 | SUN OIL CO FACTOR CYNDA<br>Contact: GM EUBANKS       | 1M W OF HOLDENVILLE<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102      | SEMINOLE | 74848 | SEMINOLE          | 8           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000728048 | SUN OIL CO FLEET-OSBORN<br>Contact: GM EUBANKS       | 2M W OF HOLDENVILLE<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102      | SEMINOLE | 74848 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000728691 | SUN OIL CO HANNAH WILLIAMS<br>Contact: GM EUBANKS    | 1M S & 1M W OF SCHOOLTON<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102 | SEMINOLE | 74848 | SEMINOLE          | 8           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000728154 | SUN OIL CO HEPSEY KING-A<br>Contact: GM EUBANKS      | 1M S & 3M W OF BEARDON<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102   | SEMINOLE | 74848 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000727750 | SUN OIL CO I S REED W-3 W1<br>Contact: GM EUBANKS    | 3M S & 2M E OF WEWOKA<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102    | SEMINOLE | 74848 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000727768 | SUN OIL CO I S REED W-3-2 W1<br>Contact: GM EUBANKS  | 3M S & 2M E OF WEWOKA<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102    | SEMINOLE | 74848 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000728105 | SUN OIL CO I T I C-1 WELL #3<br>Contact: GM EUBANKS  | 2M N OF BOWLEGS<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102          | SEMINOLE | 74848 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000727909 | SUN OIL CO ISAAC BROWN #7<br>Contact: GM EUBANKS     | 1M N & 3M W OF SEMINOLE<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102  | SEMINOLE | 74848 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000728022 | SUN OIL CO J D DINGLER<br>Contact: GM EUBANKS        | 1M S & 1M W OF WEWOKA<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102    | SEMINOLE | 74848 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000727917 | SUN OIL CO J W BROWN<br>Contact: GM EUBANKS          | 1M S & .5M W OF WEWOKA<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102   | SEMINOLE | 74848 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000728709 | SUN OIL CO J W WILMOTT<br>Contact: GM EUBANKS        | 2M W OF<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102                  | SEMINOLE | 74848 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000728147 | SUN OIL CO KEY<br>Contact: GM EUBANKS                | 3M N & 1M E OF KONAWA<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102    | SEMINOLE | 74848 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000728113 | SUN OIL CO KIZZIE JOHNSON SWD<br>Contact: GM EUBANKS | 1M S & 1M E OF WEWOKA<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102    | SEMINOLE | 74848 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000728089 | SUN OIL CO MARSHALL HUSER<br>Contact: GM EUBANKS     | 1M W OF HOLDENVILLE<br>Mailing Adrs: PO BOX 3800, TULSA, OK 74102      | SEMINOLE | 74848 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |
| OKD000728667 | SUN OIL CO MARTHA TULLY #1<br>Contact: GM EUBANKS    | 3M N & 1M E OF MAUD<br>Mailing Adrs: PO BO 3800, TULSA, OK 74102       | SEMINOLE | 74801 | SEMINOLE          | 6           |   | P                                    | 08/18/80         | Phone: 9184967384 |

**RCRA NOTIFIERS LISTING**  
 Source: USEPA RCRAInfo Database

State of: **OKLAHOMA**

| EPA-ID       | FACILITY NAME  | LOCATION ADDRESS  | CITY            | ZIP   | COUNTY/<br>PARISH | S T L       |             |   | RECEIVED<br>DATE |                   |
|--------------|--|---|-----------------|-------|-------------------|-------------|-------------|---|------------------|-------------------|
|              |  |   |                 |       |                   | G<br>E<br>N | R<br>A<br>N | O<br>O<br>P<br>E<br>R<br>T<br>S<br>D<br>F |                  |                   |
| OKD000728675 | SUN OIL CO MARTHA TULLY #2<br>Contact: GM EUBANKS      | 3M N 1M E OF MAUD<br>Mailing Addrs: PO BXO 3800, TULSA, OK 74102                  | SEMINOLE        | 74848 | SEMINOLE          | 6           |             | P   | 08/18/80         | Phone: 9184967384 |
| OKD000728717 | SUN OIL CO MELISSA WOOD<br>Contact: GM EUBANKS         | 3M S & 2M E OF WOLF<br>Mailing Addrs: PO BOX 3800, TULSA, OK 74102                | SEMINOLE        | 74848 | SEMINOLE          | 6           |             | P   | 08/18/80         | Phone: 9184967384 |
| OKD000727925 | SUN OIL CO MOSES CHUPCO<br>Contact: GM EUBANKS         | 1M N & 3M E OF KONAWA<br>Mailing Addrs: PO BOX 3800, TULSA, OK 74102              | SEMINOLE        | 74868 | SEMINOLE          | 6           |             | P   | 08/18/80         | Phone: 9184967384 |
| OKD000728055 | SUN OIL CO PIN HARJO<br>Contact: GM EUBANKS            | 3M E OF KONAWA<br>Mailing Addrs: PO BOX 3800, TULSA, OK 74102                     | SEMINOLE        | 74868 | SEMINOLE          | 6           |             | P   | 08/18/80         | Phone: 9184967384 |
| OKD000727743 | SUN OIL CO REED I S<br>Contact: GM EUBANKS             | 3M S & 2M E OF WEWOKA<br>Mailing Addrs: PO BOX 3800, TULSA, OK 74102              | SEMINOLE        | 74868 | SEMINOLE          | 6           |             | P   | 08/18/80         | Phone: 9184967384 |
| OKD000728063 | SUN OIL CO SEMINOLE HENRY<br>Contact: GM EUBANKS       | .5M S & .5M E<br>Mailing Addrs: PO BOX 3800, TULSA, OK 74102                      | SEMINOLE        | 74868 | SEMINOLE          | 6           |             | P   | 08/18/80         | Phone: 9184967384 |
| OKD000727891 | SUN OIL CO T J BAKER<br>Contact: GM EUBANKS            | 3M W OF LIMA<br>Mailing Addrs: PO BOX 3800, TULSA, OK 74102                       | SEMINOLE        | 74868 | SEMINOLE          | 6           |             | P   | 08/18/80         | Phone: 9184967384 |
| OKD000728683 | SUN OIL CO TULLY OIL FACILITY<br>Contact: GM EUBANKS   | 3M N & 1M E OF MAUD<br>Mailing Addrs: PO BOX 3800, TULSA, OK 74102                | SEMINOLE        | 74868 | SEMINOLE          | 6           |             | P   | 08/18/80         | Phone: 9184967384 |
| OKR000003509 | UNITED MOTORS<br>Contact: EDWARD HUTCHISON             | 1405 N MILT PHILLIPS<br>Mailing Addrs: 1405 N MILT PHILLIPS, SEMINOLE, OK 74868   | SEMINOLE        | 74868 | SEMINOLE          | 2           |             | P P                                       | 08/13/97         | Phone: 4053826138 |
| OKR000024042 | WAL-MART SUPERCENTER # 123<br>Contact: TERESA PRUITT   | 1500 E WRANGLER BLVD<br>Mailing Addrs: PO BOX 8041, BENTONVILLE, AR 72712         | SEMINOLE        | 74868 | SEMINOLE          | 3           |             | P P P                                     | 02/17/10         | Phone: 4792042231 |
| OKD000728436 | ELAND ENERGY/SEMINOLE CITY HUN<br>Contact: RENE SURLES | SECTION 13 9N 6E & 2M E<br>Mailing Addrs: 12801 N CENTRAL EXPWY, DALLAS, TX 75243 | SEMINOLE COUNTY | 74000 | SEMINOLE          | 3           |             | P   | 08/18/80         | Phone: 9184967384 |
| OKD000727966 | SUN OIL CO CYNDA 1-74<br>Contact: GM EUBANKS           | 1M W OF HOLDENVILLE<br>Mailing Addrs: PO BOX 3800, TULSA, OK 74102                | SEMINOLE COUNTY | 74848 | SEMINOLE          | 6           |             | P   | 08/18/80         | Phone: 9184967384 |
| OKD000728238 | SUN OIL CO ELLEN MURROW SWD SY<br>Contact: GM EUBANKS  | 1 MI S & 3 MI E OF BOWLE<br>Mailing Addrs: PO BOX 3800, TULSA, OK 74102           | SEMINOLE COUNTY | 74000 | SEMINOLE          | 6           |             | P   | 08/18/80         | Phone: 9184967384 |
| OKD000728618 | SUN OIL CO M THOMAS<br>Contact: GM EUBANKS             | 3 MI S & 1 MI E OF BOWLE<br>Mailing Addrs: PO BOX 3800, TULSA, OK 74102           | SEMINOLE COUNTY | 74000 | SEMINOLE          | 6           |             | P   | 08/18/80         | Phone: 9184967384 |
| OKD000728162 | SUN OIL CO MANDLER<br>Contact: GM EUBANKS              | 1 MI N-1MI E OF SEMINOLE<br>Mailing Addrs: PO BOX 3800, TULSA, OK 74102           | SEMINOLE COUNTY | 74000 | SEMINOLE          | 6           |             | P   | 08/18/80         | Phone: 9184967384 |
| OKD000728360 | SUN OIL CO MARIAH RENTIE<br>Contact: GM EUBANKS        | 1 MI S & 2 MI E OF SEMIN<br>Mailing Addrs: PO BOX 3800, TULSA, OK 74102           | SEMINOLE COUNTY | 74000 | SEMINOLE          | 6           |             | P   | 08/18/80         | Phone: 9184967384 |
| OKD000728170 | SUN OIL CO MAYHUE #6 WPM FAC<br>Contact: GM EUBANKS    | .5M S & .5M E OF SEMINOL<br>Mailing Addrs: PO BOX 3800, TULSA, OK 74102           | SEMINOLE COUNTY | 74000 | SEMINOLE          | 6           |             | P   | 08/18/80         | Phone: 9184967384 |

Appendix L: Oklahoma Corporation Commission Tank Removal and Closure Report For 1-1000  
Gallon Underground Storage Tank

DSB

**UNDERGROUND STORAGE TANK**

**CLOSURE REPORT**

**ARMORY**

**SEMINOLE, OKLAHOMA**

**Prepared For:  
Oklahoma Military Department**

**Prepared By:**

**CALDWELL ENVIRONMENTAL ASSOCIATES, INC.  
NORMAN, OKLAHOMA**

**September, 1997**

OKLAHOMA

# CORPORATION COMMISSION

E. R Smith, Director

JIM THORPE BUILDING (405) 521-3107

Fuel Storage Dept.

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OKLAHOMA CITY, OKLAHOMA 73105

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December 31, 1997

Captain Terrance Smith  
Oklahoma Military Department  
3517 Military Circle  
Oklahoma City, Oklahoma 73111-4398

Reference: Facility #6705783, Tank Removal and Closure Report for removal of 1-1000 gal underground storage tank located at Oklahoma Military Department Armory, 600 East Strothers, Seminole, Oklahoma.

Dear Captain Smith:

The Oklahoma Corporation Commission is in receipt of your report covering the removal and closure of 1-1000 gallon UST at the referenced site on August 29, 1997. A review of the soil testing reports, dated **September 9, 1997**, indicated the facility exceeds the action levels established by the Oklahoma Corporation Commission. A subsequent investigation and the closure of a suspicion of release (Case #6SC-1115), indicates that the facility does not exceed the levels established by the Oklahoma Corporation Commission. The subject facility is hereby considered closed within the standards prescribed by the Oklahoma Corporation Commission. Please be advised, however, that any future contamination found may require remediation.

Thank you for your cooperation and assistance to protect the waters of Oklahoma for future generations. If you have any questions, please call (405) -521-3505.

Sincerely,

*William F. Hansen*

William F. Hansen P.E.  
Sr. Environmental Engineer OCC

cc: Facility #6705783  
Rick Heck  
David H. Cohenour, Caldwell Environmental

OKLAHOMA

# CORPORATION COMMISSION

JIM THORPE BUILDING (405) 521-3107

E. R Smith, Director

Fuel Storage Dept.

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OKLAHOMA CITY, OKLAHOMA 73105

---

December 31, 1997

Captain Terrance Smith  
Oklahoma Military Department  
3517 Military Circle  
Oklahoma City, Oklahoma 73111-4398

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Sincerely,

*William F. Hansen*

William F. Hansen P.E.  
Sr. Environmental Engineer OCC

cc: Facility #6705783  
Rick Heck  
David H. Cohenour, Caldwell Environmental

DENISE A. BODE  
Commissioner

ED APPLE  
Chairman

DB ANTHONY  
Commissioner



# OKLAHOMA CORPORATION COMMISSION

JIM THORPE BUILDING (405) 521-6575

Richard E. Oppel, Manager  
Fuel Storage Department

OCC FUEL DIVISION, ROOM 247 • P.O. BOX 52000-2000 • OKLAHOMA CITY, OKLAHOMA 73152-2000

Case ID# 6SC-1115  
Facility ID# 99-13841

November 5, 1997

CERTIFIED MAIL, RETURN RECEIPT REQUESTED  
CERTIFICATE NUMBER Z 279 257 858

Oklahoma Army National Guard  
Attn: Mr. James Peck  
Environmental Branch Chief  
3501 Military Circle  
Oklahoma City, Oklahoma 73111-4398

RE: CLOSURE of Suspected Release of Product at:

Armory  
600 E. Strothers  
Seminole, Oklahoma

Dear Mr. Peck:

After review of the data submitted, no further action is required on this suspicion of release. We appreciate the prompt and professional manner in which this incident was handled. Should any contamination be discovered in the future, it will have to be properly reported and remediated according to the OCC rules.

If you have any questions, please contact the Fuel Storage Department at (405) 521-6721 between 8:00 a.m. and 4:30 p.m. Monday through Friday. Please reference the appropriate OCC Facility Number and Case Number on all correspondence.

Sincerely,

A handwritten signature in cursive script, appearing to read "G. Thomas Current".

G. Thomas Current  
Senior Environmental Specialist

GTC:raw

cc:

Caldwell Environmental  
Attn: Mr. David Cohenour  
P.O. Box 1608  
Norman, Oklahoma 73070

(6SC-1115)

ANTHONY  
Commissioner

ED APPLE  
Chairman

DENISE A. BODE  
Commissioner

OKLAHOMA

# CORPORATION COMMISSION

JIM THORPE BUILDING (405) 521-6575

Richard E. Oppel, Manager  
Fuel Storage Department

OCC FUEL DIVISION, ROOM 247 • P.O. BOX 52000-2000 • OKLAHOMA CITY, OKLAHOMA 73152-2000

October 10, 1997

Case ID# 6SC-1115  
Facility ID# 99-13841

CERTIFIED MAIL, RETURN RECEIPT REQUESTED  
CERTIFICATE NUMBER Z 279 257 914

Oklahoma Army National Guard  
Attn: Mr. James Peck  
Environmental Branch Chief  
3501 Military Circle  
Oklahoma City, OK 73111-4398

RE: Extension of time for OAC 165:25-3-3 for site located at:

Armory  
600 E. Strothers  
Seminole, OK

Dear Mr. Peck:

The Oklahoma Corporation Commission (OCC) has reviewed your request to extend the due date for the above referenced reports to **October 30, 1997**. These reports were originally due on October 2, 1997. Your request for an extension of time is **approved**.

It is of the utmost importance that you understand that any OCC established deadline does not relieve you of initiating a remediation plan if human health, safety, welfare or the environment is threatened. Moreover, requirements to initiate remediation are not driven by whether the Indemnity Fund will reimburse the plan chosen or not. Rather, it is the responsibility of the responsible person to initiate a remediation plan. Their failure to do so, and subsequent damage caused by such failure, can be actionable by any aggrieved party.

All sampling, investigation, risk assessment (ORBCA certified) remediation, or any other activity must be supervised by a properly certified UST consultant. Failure to have a certified UST consultant supervising activities will result in enforcement action seeking fines and rejection of all submitted reports.

In the event you fail to comply with these requirements, you may be subject to enforcement action and/or fines.



DEPARTMENTS OF THE ARMY AND THE AIR FORCE  
**OKLAHOMA ARMY AND AIR NATIONAL GUARD**

3501 MILITARY CIRCLE  
OKLAHOMA CITY, OKLAHOMA 73111-4398  
(405) 425-8000 or DSN 940-3210

September 25, 1997

Directorate of Engineering  
Environmental Office

Oklahoma Corporation Commission  
Fuel Division, Room 247  
ATTN: Thomas Current  
P.O. Box 52000-2000  
Oklahoma City, Oklahoma 73152-2000

SUBJECT: Suspected release of regulated substance.

Dear Mr. Current,

This letter is in reference to the monitoring well required by the OCC at the Armory located at 600 E. Strothers, Seminole, OK. The Oklahoma Army National Guard (OKARNG) is currently negotiating with Caldwell Environmental Associates (CEA) to have the monitoring well put in place. CEA has informed me that it will take approximately five days to schedule a well driller and approximately seven days for the lab to analyze the soil and groundwater samples. The above mentioned transactions will cause the OKARNG to miss the October 2 suspense. In order to meet the requirements of the OCC, the OKARNG requests an extension out to October 30, 1997.

Your assistance in this matter is greatly appreciated. If you have any questions or comments please contact CPT Terrence Smith at 405-425-8333.

Sincerely,

A handwritten signature in cursive script that reads "James C. Peck".

James C. Peck  
Environmental Branch Chief

BOB ANTHONY  
Commissioner

ED APPLE  
Chairman

DENISE A. BODE  
Commissioner

OKLAHOMA

# CORPORATION COMMISSION

JIM THORPE BUILDING (405) 521-6575

Richard E. Oppel, Manager  
Fuel Storage Department

OCC FUEL DIVISION, ROOM 247 • P.O. BOX 52000-2000 • OKLAHOMA CITY, OKLAHOMA 73152-2000

September 12, 1997

Tracking #6SC-1115  
Facility #99-13841

CERTIFIED MAIL, RETURN RECEIPT REQUESTED  
CERTIFICATE NUMBER Z 279 256 818

**NOTICE: SUSPECTED RELEASE FROM UNDERGROUND STORAGE TANK SYSTEM.  
YOU HAVE UNTIL OCTOBER 2, 1997 TO SUBMIT A REPORT OF  
INVESTIGATION AND CONFIRMATION OF SUSPECTED RELEASE, AS  
REQUIRED BY OAC 165:25-3-2 AND OAC 165:25-3-3.**

Oklahoma Military Department  
Attn: Capt. Terrance Smith  
Dir. of Engineering - Env. Office  
3517 Military Circle  
Oklahoma City, Oklahoma 73111-4398

Re: Suspected release of regulated substance from Underground  
Storage Tank System located at:

National Guard Armory  
600 E. Strothers  
Seminole, Oklahoma

Dear Capt. Smith:

This is to inform you that the Oklahoma Corporation Commission (OCC) has received a report concerning a possible release of regulated substance from the above referenced Underground Storage Tank (UST) system(s) for which you may be legally responsible as an owner and/or operator of the USTs. Please notify our office if you have evidence that you are not the owner or operator. The OCC rules require the owner or operator of the UST system to take immediate steps to abate any contamination or potential contamination resulting from such a release.

The situation at this location requires a site check under OAC 165:25-3-3. A minimum of one (1) native soil sample and one (1) groundwater sample for the UST system under investigation in an area most likely to be contaminated is necessary for this site check. This should be 5-10 feet down-gradient from the dispenser island. The policy for depth of monitoring wells was established in 1993 by the attached memo. Please provide this copy to your consultant. The rules require investigation within seven (7) days and a report submitted to this office within 20 days. All sampling, investigation, remediation, or any other activity must be supervised by a certified UST consultant. Failure to have a certified UST consultant supervising activities or to submit the referenced reports will result in enforcement action seeking fines and rejection of all submitted reports.

OKLAHOMA CORPORATION COMMISSION - UST PROGRAM  
INITIAL RELEASE REPORT

CONFIRMED RELEASE

SUSPICION OF RELEASE:  
 SOIL & GW  
 SOIL ONLY  
 SYSTEM TEST  
 (TTT &/OR LTT)

DATE OF REPORT: 9-12-97 INITIAL INVESTIGATION REPORT TAKEN BY: R  
 FAC. ID# no registered LEAK ID# 604-1115 TANK ID# \_\_\_\_\_ HYDROLOGIST R  
99-13891  
 OWNER'S NAME & TITLE: Capt. Terrance Smith  
 CO. NAME: OK Military Dept SITE NAME: National Guard Armory  
 CO. ADDRESS: Dir. of Engineering - Environmental Office SITE ADDRESS: 600 E. Brothers  
3517 Military Circle  
 CITY/ST/ZIP: OKC, OK 73111-4398 CITY/ST/ZIP: Seminole, Ok  
 PHONE: 425-8330 PHONE: \_\_\_\_\_

SITE STATUS INFORMATION:  
CODE/DATE/COMMENT

|                    |                                   |
|--------------------|-----------------------------------|
| benzene < 2000 ppb | NA @ 2 1/2 ft - could not         |
| T 20,000 "         | over expansion, soil, prob not    |
| E 24,000 "         | native soil: Place 1 MW 5-        |
| X 187,000 "        | 10ft down grad. from fuel island. |
| T PH 1380,000 "    | Tank not used in 20+ years        |

REPORTING PARTY INFORMATION: \_\_\_\_\_ ANONYMOUS \_\_\_\_\_ CONFIDENTIAL

CC REPORTING PARTY?  Y \_\_\_\_\_ N

NAME: Ronald Cochran COMPANY: Cuddwell Environmental

TITLE: \_\_\_\_\_ ADDRESS: \_\_\_\_\_

CITY/ST/ZIP: \_\_\_\_\_ PHONE: \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

LEAK INFORMATION: WERE INVENTORY RECORDS PROVIDED? Y OR N \_\_\_\_\_  
 DATE \_\_\_\_\_ PRODUCT \_\_\_\_\_ DESCRIPTION \_\_\_\_\_ QNTY LOST \_\_\_\_\_  
 CAUSE: \_\_\_\_\_

AGENCY \_\_\_\_\_ STATUS \_\_\_\_\_ LPR# \_\_\_\_\_ INSPECTION DATE \_\_\_\_\_



September 15, 1997

Mr. G. Tom Carrant  
Senior Environmental Specialist  
Oklahoma Corporation Commission  
Fuel Storage Department  
P.O. Box 52000-200  
Oklahoma City, Oklahoma 73152-2000

Re: Oklahoma Military Department  
UST Closure, Armory, Seminole, Oklahoma

Dear Mr. Carrant:

Please find the attached closure report for the UST that was located at the Armory in Seminole, Oklahoma. We found the UST to be in excellent condition with no holes or leaks observed after removal. However, petroleum impacted sandstone was found below the former fuel island and to a much lesser extent below the UST. The soil sample collected from underneath the fuel island was reported by the laboratory above Oklahoma Corporation Commissions action levels for TPH (1,380 mg/kg) and ethylbenzene (20 mg/kg). It appears that this was a fuel line or dispenser leak that occurred over a long period of time. If you have any questions concerning this report, please call me at 329-7167.

Sincerely,

David H. Cohenour  
Senior Hydrogeologist

**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.** NA (See Attached Registration Form)
  
  2. **Facility location Name and Address**  
Oklahoma Military Department Armory  
600 East Sttuthers  
Seminole, Oklahoma
  
  3. **Owner's Name and Address.**  
Oklahoma Military Department Contact: Captain Terrance Smith  
Directorate of Engineering  
Environmental Office  
3517 Military Circle  
Oklahoma City, Oklahoma 73111-4398
  
  4. **Date Work Accomplished:** 8-29-97
  
  5. **Number and size of tanks remaining at this facility**  
None
  
  6. **Number and size of tanks removed.**  
One 1,000 Gallon Steel UST  
(a) **Condition of removed tanks. Are there any holes present?**  
The UST was in excellent condition with no holes or leaks observed. However, petroleum impact sandstone was encounterede under the former fuel island/dispenser line.  
(b) **Describe the disposal and/or disposition of the tank(s).**  
The tank was destroyed on site by cutting a large hole in the end of the tank  
The tank was taken to Ferex Corp. in Ada, Oklahoma for metal recycling  
(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. 1982
9. Assess the site for potential contamination by:
- (a) testing the soil or ground water; or
  - (b) using an external leak detection method such as monitoring wells. No
  - (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 David H. Cohenour

Address Caldwell Environmental Associates, Inc.

PO Box 1608

Norman, Oklahoma 73070

Phone Number (405) 329-7167

Certification Number 0331

Signature of Oklahoma Certified UST Consultant:

David H. Cohenour

Date 9-15-97

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 David H. Cohenour

Address Caldwell Environmental Associates, Inc.

PO Box 1608

Norman, Oklahoma 73070

Phone Number (405) 329-7167

Signature of Preparer:

David H. Cohenour

Date 9-15-97

Attachments:

- (a) Lab reports or records of external leak detection
- (b) Site sketch

## **ATTACHMENTS**

**UST Registration Form (Form 7530-1)**

**Laboratory Report**

**Site Maps**

**UST Certificate of Destruction**

**Field Notes**

**Site Photographs**

| Registration for Underground Storage Tanks   |  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
|--|--|----------------|-----------------|---------------------|-------------------------------------|------------------------------------|--|-----------------|-------|-------|-------|
| <p><b>Oklahoma Corporation Commission<br/>Underground Storage Tank Program<br/>P.O. Box 52000-2000, Rm 250<br/>Oklahoma City, OK 73152-2000</b></p>  | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center; padding: 2px;">STATE USE ONLY</th> </tr> <tr> <td style="padding: 2px;">ID NUMBER _____</td> </tr> <tr> <td style="padding: 2px;">DATE RECEIVED _____</td> </tr> <tr> <td style="padding: 2px;">A. Date entered into computer _____</td> </tr> <tr> <td style="padding: 2px;">B. Data entry clerk initials _____</td> </tr> <tr> <td style="padding: 2px;">C. Owner was contacted to clarify responses. _____</td> </tr> <tr> <td style="padding: 2px;">Comments: _____</td> </tr> <tr> <td style="padding: 2px;">_____</td> </tr> <tr> <td style="padding: 2px;">_____</td> </tr> <tr> <td style="padding: 2px;">_____</td> </tr> </table> | STATE USE ONLY | ID NUMBER _____ | DATE RECEIVED _____ | A. Date entered into computer _____ | B. Data entry clerk initials _____ | C. Owner was contacted to clarify responses. _____ | Comments: _____ | _____ | _____ | _____ |
| STATE USE ONLY   |  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
| ID NUMBER _____  |  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
| DATE RECEIVED _____  |  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
| A. Date entered into computer _____  |  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
| B. Data entry clerk initials _____   |  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
| C. Owner was contacted to clarify responses. _____   |  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
| Comments: _____  |  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
| _____  |  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
| _____  |  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
| _____  |  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
| <p style="text-align: center;">TYPE OF NOTIFICATION</p> <p><input type="checkbox"/> A. NEW FACILITY    <input type="checkbox"/> B. AMENDED</p> <p><input checked="" type="checkbox"/> C. CLOSURE</p> <p><u>  </u> No. of tanks at facility.      <u>  </u> No. of continuation sheets attached.</p>  |  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
| <p><b>INSTRUCTIONS</b></p> <p>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.</p>   |  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
| <p><b>GENERAL INFORMATION</b></p> <p>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.</p> <p>Penalties: Any owner who knowingly fails to notify or submits false information shall be subject to civil penalty not to exceed \$10,000 for each tank for which notification is not given or for which false information is submitted.</p> |  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
| <p><b>I. OWNERSHIP OF TANK(S)</b></p>  | <p><b>II. LOCATION OF TANK(S)</b></p>  |                |                 |                     |                                     |                                    |  |                 |       |       |       |
| <p>Owner Name (Corporation, Individual, Public Agency, or Other Entity)</p> <p><u>OKLAHOMA MILITARY DEPARTMENT</u><br/><u>DIRECTORATE OF ENGINEERING ENV. OFFICE</u></p> <p><u>3517 MILITARY CIRCLE</u></p> <p>Mailing Address <u>OKC, OK</u>      <u>73111-4398</u></p> <p>City &amp; State <u>OKLAHOMA</u>      Zip Code _____</p> <p>County _____</p> <p><u>(405) 425-8333</u></p> <p>(Area Code) Phone Number</p>  | <p>If known, give the geographic location by degrees, minutes, and seconds. Example: Lat. 42, 36, 12 N Long. 85, 24, 17W.</p> <p>Latitude _____ Longitude _____</p> <p>Facility Name or Company Site Identifier, as applicable _____</p> <p>Street Address (P.O. Box not acceptable) _____</p> <p>City &amp; State _____ Zip Code _____</p> <p>County _____</p>  |                |                 |                     |                                     |                                    |  |                 |       |       |       |

| III. TYPE OF OWNER/FACILITY  | IV. INDIAN LANDS  |
|--|---|
| <input type="checkbox"/> Federal Government<br><input checked="" type="checkbox"/> State Government<br><input type="checkbox"/> Local Government<br><br><input type="checkbox"/> Commercial<br><input type="checkbox"/> Farm<br><input type="checkbox"/> Gas Station<br><input type="checkbox"/> Other | <p>Tanks are located on land within an Indian Reservation or on other trust lands.</p> <p>Tribe or Nation</p> <hr style="width: 80%; margin-left: 0;"/> |

**V. CONTACT PERSON IN CHARGE OF TANKS**

| Name                   | Job Title                | Address                                    | Phone Number (Include Area Code) |
|------------------------|--------------------------|--|----------------------------------|
| Captain Terrance Smith | Environmental Specialist | 3517 Military Circle<br>OKC, OK 73111-4398 | (405) 425-8333                   |

**VI. FINANCIAL RESPONSIBILITY**

I have met the financial responsibility requirements in accordance with 40 CFR Subpart H & OAC 165:25, Subchapter 13.

**VII. DESCRIPTION OF UNDERGROUND STORAGE TANKS  
COMPLETE FOR EACH TANK AT THIS LOCATION.**

| Tank Identification Number                                    | Tank No. 1                          | Tank No.                 | Tank No.                 | Tank No.                 |
|---|-------------------------------------|--------------------------|--------------------------|--------------------------|
| 1. Status of Tank (mark only one)<br>Currently In Use         | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Temporarily Out of Use<br>(Remember to fill out section VIII) | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Permanently Out of Use<br>(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)                            | 1/55?                               |                          |                          |                          |
| 3. Estimated Total Capacity (gallons)                         | 1,000                               |                          |                          |                          |
| 4. Material of Construction<br>(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   | _____                               | _____                    | _____                    | _____                    |
|   | _____                               | _____                    | _____                    | _____                    |

| Tank Identification Number  | Tank No. <u>1</u>   | Tank No. _____   | Tank No. _____   | Tank No. _____   |
|---|---|--|--|--|
| 5. Piping (Material)<br>(Mark all that apply)      Steel<br>Fiberglass Reinforced Plastic<br>Copper<br>Cathodically Protected<br>Double Walled<br>Secondary Containment<br>Unknown<br>Other, Please specify | <input checked="" type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>   |
| 6. Piping (Mark all that apply)<br>Pressure<br>Suction: no valve at tank<br>Suction: valve at tank  | <input type="checkbox"/><br><input checked="" type="checkbox"/><br><input type="checkbox"/>   | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/>   | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/>   | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/>   |
| 7. Substances Currently or Last<br>Stored in Greatest Quantity.<br>Gasoline<br>Diesel<br>Gasohol<br>Kerosene<br>Heating Oil<br>Used Oil<br>Other, Please specify  | <input checked="" type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |
| Hazardous Substance CAS Number<br>or CERCLA Name  | _____   | _____  | _____  | _____  |
| <b>VIII. TANKS OUT OF USE, OR CHANGE IN SERVICE</b>   |   |  |  |  |
| 1. Closing of Tank  |   |  |  |  |
| A. Estimated date last used   | <u>19765</u>  | _____  | _____  | _____  |
| B. Estimate date tank closed or<br>removed. (mo./date/year)   | <u>8-29-97</u>  | _____  | _____  | _____  |
| C. Tank was removed from ground.  | <input checked="" type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>   |
| D. Tank was closed in ground.   | <input type="checkbox"/>  | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>   |
| E. Tank filled with inert material.<br>Describe type of material used.  | <input type="checkbox"/><br>_____   | <input type="checkbox"/><br>_____  | <input type="checkbox"/><br>_____  | <input type="checkbox"/><br>_____  |
| F. Change in service.   | _____   | _____  | _____  | _____  |
| 2. Site Assessment Completed  | <input checked="" type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/>   |
| Evidence of a leak detected   | <u>YES</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. Installation<br>Installer certified or licensed by the implementing agency   | _____                    |                          | _____                    |                          | _____                    |                          | _____                    |                          |
|   | TANK                     | PIPING                   | TANK                     | PIPING                   | TANK                     | PIPING                   | TANK                     | PIPING                   |
| 2. Release Detection (Mark all that apply)<br>A. Manual tank gauging<br>B. Tightness testing<br>C. Inventory controls<br>D. Automatic tank gauging<br>E. Vapor monitoring<br>F. Groundwater monitoring<br>G. Interstitial monitoring double walled tank/piping<br>H. Interstitial monitoring or secondary containment<br>I. Automatic line leak detectors<br>J. Other method allowed by Implementing Agency.<br>Please specify. | <input type="checkbox"/> |
|   | <input type="checkbox"/> |
|   | <input type="checkbox"/> |
|   | <input type="checkbox"/> |
|   | <input type="checkbox"/> |
|   | <input type="checkbox"/> |
|   | <input type="checkbox"/> |
|   | <input type="checkbox"/> |
|   | <input type="checkbox"/> |
|   | <input type="checkbox"/> |
| 3. Spill and Overfill Protection<br>A. Overfill device installed.<br>B. Spill device installed.   | <input type="checkbox"/> |                          | <input type="checkbox"/> |                          | <input type="checkbox"/> |                          | <input type="checkbox"/> |                          |
|   | <input type="checkbox"/> |                          | <input type="checkbox"/> |                          | <input type="checkbox"/> |                          | <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 this information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative (Print) DAVID H. COTTENOUR, SENIOR HYDROGEOLOGIST  
GALDWELL ENVIRONMENTAL ASSOCIATES, INC.

Signature & Date: David H. Cottenour



# Intertek Testing Services Environmental Laboratories

## ANALYTICAL REPORT

DATE RECEIVED : 30-AUG-1997

REPORT NUMBER : D97-10623

REPORT DATE : 9-SEP-1997

ATTENTION : Mr. David Cohenour  
SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
: Norman, OK 73069

PROJECT : CMD Seminole UST Closure

Included in this data package are the analytical results for the sample group which you have submitted to Intertek Testing Services for analysis. These results are representative of the samples as received by the laboratory.

The information contained herein has undergone extensive review and is deemed accurate and complete. Sample analysis and quality control were performed in accordance with all applicable protocols. Please refrain from reproducing this report except in its entirety.

If you have any questions regarding this report and its associated materials please call your Project Manager at (972) 238-5591.

We appreciate the opportunity to serve you and look forward to providing continued service in the future.

A handwritten signature in cursive script that reads 'Martin Jeffus'.

Martin Jeffus  
General Manager



# Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 30-AUG-1997

REPORT NUMBER : D97-10623-1

REPORT DATE : 9-SEP-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
: Norman, OK 73069  
ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Soil  
ID MARKS : OMD Seminole UST Bottom  
PROJECT : CMD Seminole UST Closure  
DATE SAMPLED : 29-AUG-1997  
ANALYSIS METHOD : EPA 8020 /1  
ANALYZED BY : RFG  
ANALYZED ON : 8-SEP-1997  
DILUTION FACTOR : 1  
METHOD FACTOR : 10  
QC BATCH NO : 27-090897

| VOLATILE AROMATIC ORGANICS |                    |                       |
|----------------------------|--------------------|-----------------------|
| TEST REQUESTED             | DETECTION LIMIT    | RESULTS               |
| Benzene                    | 2 $\mu\text{g/Kg}$ | < 2 $\mu\text{g/Kg}$  |
| Ethylbenzene               | 2 $\mu\text{g/Kg}$ | < 2 $\mu\text{g/Kg}$  |
| Toluene                    | 2 $\mu\text{g/Kg}$ | < 2 $\mu\text{g/Kg}$  |
| Xylenes                    | 2 $\mu\text{g/Kg}$ | < 2 $\mu\text{g/Kg}$  |
| Naphthalene                |                    | 17.2 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA      |                 |
|---------------------------|-----------------|
| SURROGATE COMPOUND        | SPIKE RECOVERED |
| 4-Bromofluorobenzene (SS) | 105 %           |



# Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 30-AUG-1997

REPORT NUMBER : D97-10623-1  
REPORT DATE : 9-SEP-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
                  : Norman, OK 73069  
ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Soil  
ID MARKS : OMD Seminole UST Bottom  
PROJECT : CMD Seminole UST Closure  
DATE SAMPLED : 29-AUG-1997  
ANALYSIS METHOD : EPA 5030/8015M /1  
ANALYZED BY : RFG  
ANALYZED ON : 8-SEP-1997  
DILUTION FACTOR : 1  
METHOD FACTOR : 10  
QC BATCH NO : 28-090897

| TPH BY GC (VOLATILE)        |                      |                      |
|-----------------------------|----------------------|----------------------|
| TEST REQUESTED              | DETECTION LIMIT      | RESULTS              |
| Total Petroleum Hydrocarbon | 500 $\mu\text{g/Kg}$ | 550 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA |  |                 |
|----------------------|--|-----------------|
| SURROGATE COMPOUND   |  | SPIKE RECOVERED |
| Fluorobenzene        |  | 89.7      %     |



# Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 30-AUG-1997

REPORT NUMBER : D97-10623-1

REPORT DATE : 9-SEP-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
          : Norman, OK 73069  
ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Soil  
ID MARKS : OMD Seminole UST Bottom  
PROJECT : CMD Seminole UST Closure  
DATE SAMPLED : 29-AUG-1997

| MISCELLANEOUS ANALYSES   |                 |         |
|--|-----------------|---------|
| TEST REQUESTED   | DETECTION LIMIT | RESULTS |
| Total Solids /1  | 0.01 %          | 93.4 %  |
| Analyzed using ASTM D2216 mod. on 8-SEP-1997 by DPV<br>QC Batch No : 214014B |                 |         |



# Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 30-AUG-1997

REPORT NUMBER : D97-10623-2  
REPORT DATE : 9-SEP-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
: Norman, OK 73069  
ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Soil  
ID MARKS : OMD Seminole Fuel Island  
PROJECT : CMD Seminole UST Closure  
DATE SAMPLED : 29-AUG-1997  
ANALYSIS METHOD : EPA 8020 /1  
ANALYZED BY : RFG  
ANALYZED ON : 9-SEP-1997  
DILUTION FACTOR : 1000  
METHOD FACTOR : 10  
QC BATCH NO : 27-090897

| VOLATILE AROMATIC ORGANICS |                       |                         |
|----------------------------|-----------------------|-------------------------|
| TEST REQUESTED             | DETECTION LIMIT       | RESULTS                 |
| Benzene                    | 2000 $\mu\text{g/Kg}$ | < 2000 $\mu\text{g/Kg}$ |
| Ethylbenzene               | 2000 $\mu\text{g/Kg}$ | 20000 $\mu\text{g/Kg}$  |
| Toluene                    | 2000 $\mu\text{g/Kg}$ | 20000 $\mu\text{g/Kg}$  |
| Xylenes                    | 2000 $\mu\text{g/Kg}$ | 187000 $\mu\text{g/Kg}$ |
| Naphthalene                |                       | 21000 $\mu\text{g/Kg}$  |

| QUALITY CONTROL DATA      |                 |
|---------------------------|-----------------|
| SURROGATE COMPOUND        | SPIKE RECOVERED |
| 4-Bromofluorobenzene (SS) | 114 %           |

Intertek Testing Services NA Inc.  
1089 East Collins Boulevard Richardson, TX 75081  
Telephone (972) 238-5591 Fax (972) 238-5592



# Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 30-AUG-1997

REPORT NUMBER : D97-10623-2

REPORT DATE : 9-SEP-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
                  : Norman, OK 73069  
ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Soil  
ID MARKS : OMD Seminole Fuel Island  
PROJECT : CMD Seminole UST Closure  
DATE SAMPLED : 29-AUG-1997  
ANALYSIS METHOD : EPA 5030/8015M /1  
ANALYZED BY : RFG  
ANALYZED ON : 8-SEP-1997  
DILUTION FACTOR : 1000  
METHOD FACTOR : 1  
QC BATCH NO : 28-090897

| TPH BY GC (VOLATILE)        |                        |                          |
|-----------------------------|------------------------|--------------------------|
| TEST REQUESTED              | DETECTION LIMIT        | RESULTS                  |
| Total Petroleum Hydrocarbon | 50000 $\mu\text{g/Kg}$ | 1380000 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA |  |                 |
|----------------------|--|-----------------|
| SURROGATE COMPOUND   |  | SPIKE RECOVERED |
| Fluorobenzene        |  | 95.7      %     |



# Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 30-AUG-1997

REPORT NUMBER : D97-10623-2

REPORT DATE : 9-SEP-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
                          : Norman, OK 73069  
ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Soil  
ID MARKS : OMD Seminole Fuel Island  
PROJECT : CMD Seminole UST Closure  
DATE SAMPLED : 29-AUG-1997

| MISCELLANEOUS ANALYSES   |                 |         |
|--|-----------------|---------|
| TEST REQUESTED   | DETECTION LIMIT | RESULTS |
| Total Solids /1  | 0.01 %          | 93.1 %  |
| Analyzed using ASTM D2216 mod. on 8-SEP-1997 by DPV<br>QC Batch No : 214014B |                 |         |



# Intertek Testing Services Environmental Laboratories

REPORT DATE : 9-SEP-1997

REPORT NUMBER : D97-10623

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
 ATTENTION : Mr. David Cohenour  
 PROJECT : CMD Seminole UST Closure

## LABORATORY QUALITY CONTROL REPORT

| ANALYTE          | Benzene    | Ethylbenzene | Total Petroleum Hydrocarbon |
|------------------|------------|--------------|-----------------------------|
| BATCH NO.        | 27-090897  | 27-090897    | 28-090897                   |
| LCS LOT NO.      | AC033-62A  | AC033-62A    | AC033-55A                   |
| PREP METHOD      | ---        | ---          | ---                         |
| PREPARED BY      | ---        | ---          | ---                         |
| ANALYSIS METHOD  | EPA 8020   | EPA 8020     | EPA 5030/8015M              |
| ANALYZED BY      | RFG        | RFG          | RFG                         |
| UNITS            | µg/Kg      | µg/Kg        | µg/Kg                       |
| METHOD BLANK     | < 2.00     | < 2.00       | < 50.0                      |
| SPIKE LEVEL      | 50.0       | 50.0         | 500                         |
| SPK REC LIMITS   | 70.0 - 130 | 70.0 - 130   | 70.0 - 130                  |
| SPK RPD LIMITS   | 25.0       | 25.0         | 25.0                        |
| MS RESULT        | 49.2       | 50.4         | 527                         |
| MS RECOVERY %    | 98.4       | 101          | 105                         |
| MSD RESULT       | 45.6       | 46.8         | 489                         |
| MSD RECOVERY %   | 91.2       | 93.6         | 97.8                        |
| MS/MSD RPD %     | 7.59       | 7.41         | 7.48                        |
| BS RESULT        | NA         | NA           | NA                          |
| BS RECOVERY %    | NA         | NA           | NA                          |
| BSD RESULT       | NA         | NA           | NA                          |
| BSD RECOVERY %   | NA         | NA           | NA                          |
| BS/BSD RPD %     | NA         | NA           | NA                          |
| DUP RPD LIMITS   | ---        | ---          | ---                         |
| DUPLICATE RPD %  | NA         | NA           | NA                          |
| LCS LEVEL        | 50.0       | 50.0         | 500                         |
| LCS REC LIMITS   | 70.0 - 130 | 70.0 - 130   | 70.0 - 130                  |
| LCS RESULT       | 48.1       | 46.5         | 495                         |
| LCS RECOVERY %   | 96.2       | 93.0         | 99.0                        |
| SPIKE SAMPLE ID  | 10625-8    | 10625-8      | 10625-8                     |
| SAMPLE VALUE     | < 2.00     | < 2.00       | < 50.0                      |
| DUP SAMPLE ID    | ---        | ---          | ---                         |
| DUP SAMPLE VAL/1 | ---        | ---          | ---                         |
| DUP SAMPLE VAL/2 | ---        | ---          | ---                         |

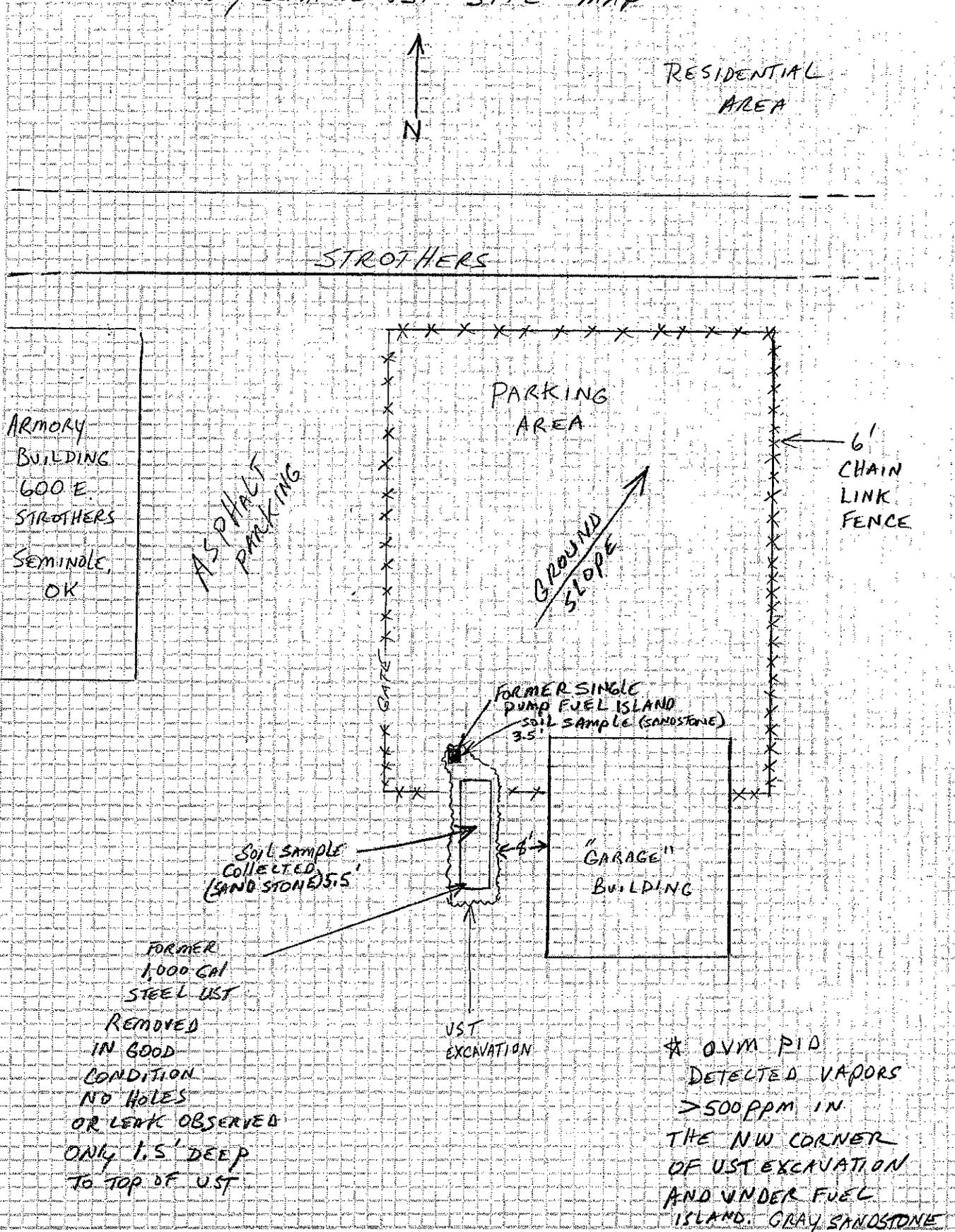
NA Not applicable

Intertek Testing Services NA Inc.  
 1089 East Collins Boulevard Richardson, TX 75081  
 Telephone (972) 238-5591 Fax (972) 238-5592





### ARMORY SEMINOLE VST SITE MAP



OKLAHOMA

# CORPORATION COMMISSION

Ray Smith, Director

Fuel Division

P.O. BOX 52000-2000 (405) 522-4640

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OKLAHOMA CITY, OKLAHOMA 73152-2000

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August 25, 1997

David Cohenour  
Caldwell Environmental Associates  
P. O. Box 1608  
Norman, OK 73070

RE: Facility #Unregistered

Dear Sir or Madam:

The Oklahoma Corporation Commission has been notified that an underground storage tank(s) will be removed or closed as follows:

LOCATION: 600 E. Strothers; Seminole, OK  
CLOSURE DATE: August 29, 1997  
SAMPLING TIME: 12:00 p.m.

An OCC certified UST consultant must be in supervisory control of the sampling for use in the site assessment.

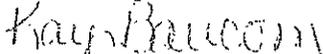
Rule 165:25-3-65 allows fines of up to \$10,000 per day for not meeting the agreed schedule to sample the sites or failure to provide 48 hours notice for schedule changes. Rescheduling must be accomplished through this office.

The Oklahoma Corporation Commission will issue citations to tank owners that do not submit the required site assessment report within the forty-five day time period as specified in 165:25-3-15 (3).

PROCEDURES LISTED BELOW MUST BE FOLLOWED:

1. Schedule removal/closure with the Oklahoma Corporation Commission, UST Program, (405) 521-3107, or for any technical details.
2. Assure safe work area per Federal, State, and Local Regulations.
3. Perform sampling protocol for tank(s) and piping.
  - A. SAMPLING MUST BE SUPERVISED BY AN OCC CERTIFIED UST CONSULTANT.
  - B. SEND SOIL SAMPLE FOR TESTING TO DEQ CERTIFIED LABORATORY.
4. Submit written report and sketches to the OCC within 45 days of closure.
5. Properly dispose of tank(s), excavated soil and water.
6. NOTE: IF YOU ARE NOT THE REGISTERED TANK OWNER, PLEASE COMPLETE THE ATTACHED NOTIFICATION (7530-1), ALONG WITH THE CLOSURE REPORT. IF YOU ARE THE REGISTERED TANK OWNER, YOU ONLY NEED TO COMPLETE THE CLOSURE REPORT.

Sincerely,



Kay Baucom  
Fuel Division  
Administrative Services Department

Job #. 972028.  
Date: 9-9-97.  
Completed By: DHC.

**CERTIFICATE OF DESTRUCTION**

**Scrapping/Disposal Company:**      **Site of Destruction:**

FEREX Corporation.  
326 East 9th Street.  
Ada, Oklahoma.

Armory.  
600 E. Strothers.  
Seminole, Oklahoma.

**Tank Removal Contractor:**

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

**Tank Identification:**

Tank #: Not Available.

Size: 1000 Gallon.

Location:      Company: Oklahoma Military Department Armory.

Address: 600 E. Strothers

City/State: Seminole, Oklahoma.

**Destruction Date:**      8-29-97.

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:**

David H. Cohenour

David H. Cohenour.

By

Senior Hydrogeologist.

Title

Subscribed & Sworn to before me this 9 day of September .  
in the year 1997.

Garif Anderson  
Notary Public

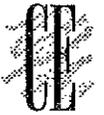
My Commission Expires:

Sept. 11, 1997.

PROJECT: OMG UST CLOSURE SHEET: 1 OF 1

SUBJECT: SEMINOLE UST CLOSURE BY: LHC DATE: 8-29-97

Caldwell Environmental Assoc., Inc.  
P.O. Box 1608  
Norman, OK 73070  
(405) 329-7167  
Fax (405) 329-7277



0615 AT OFFICE PREP FOR DEPARTURE  
0630 LV. FOR SITE  
0750 ON-SITE HOLD SAFETY MEETING  
0800 SET UP TO REMOVE UST TAKE DOWN FENCE  
0810 UNCOVERED UST ONLY 1.5' DEEP  
- SANDSTONE EXPOSED 2.5' BELOW GROUND  
0915 UST OUT IN GOOD CONDITION NO HOLES OR LEAKS  
INSERT UST WITH DRY ICE, CUT HOLE IN END  
@ 9:30 PET. DOOR IN SANDSTONE IN NW CORNER  
OF EXCAVATION UNDER FUEL LINE / DISPERSE  
SOIL SAMPLES COLLECTED FROM UNDER UST  
① 5.5' DEEP AND UNDER FUEL LINE @ 3.5' DEEP  
> 500ppm ON OVM  
12:30 BACK AT UST SITE AND  
13:30 REMOVE SAND  
1400 LV FOR OFFICE  
1530 BACK AT OFFICE  
1700 SAMPLE

PROJECT: OMD UST CLOSURES SHEET: 1 OF 2

SUBJECT: SEMINOLE PHOTOGRAPHS BY: DHC DATE: 9-12-97

Caldwell Environmental Assoc., Inc.  
P.O. Box 1608  
Norman, OK 73070  
(405) 329-7167  
Fax (405) 329-7277

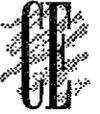


UST EXCAVATION PHOTOGRAPHS

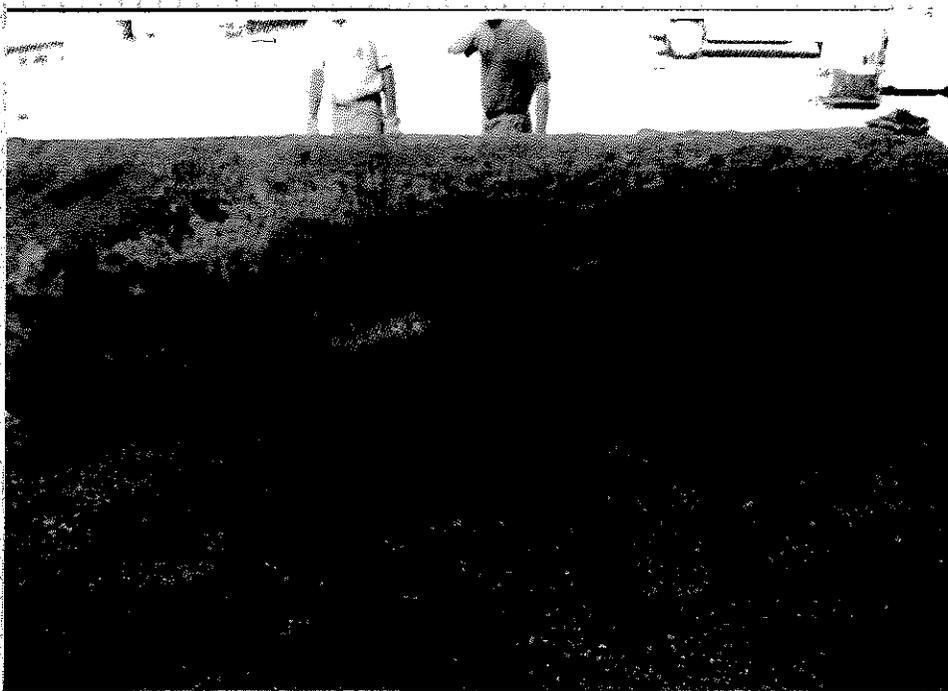
PROJECT: OMD UST CLOSURES SHEET: 2 OF 2

SUBJECT: SEMINOLE UST PHOTOS BY: DHC DATE: 9/12-97

Caldwell Environmental Assoc., Inc.  
P.O. Box 1608  
Norman, OK 73070  
(405) 329-7167  
Fax (405) 329-7277



END  
OF UST



← BOTTOM  
OF  
UST

UST PHOTOGRAPHS

**SITE CHECK REPORT**  
**OKLAHOMA MILITARY DEPARTMENT ARMORY**  
**SEMINOLE, OKLAHOMA**

**OCC Case #6SC-1115**  
**Facility #99-13841**

**Prepared For:**

**Oklahoma Military Department**  
**Oklahoma City, Oklahoma**

**Prepared By:**



**Caldwell Environmental Associates, Inc.**  
**Norman, Oklahoma**  
**October, 1997**



October 29, 1997

Mr. G. Thomas Carrant  
Senior Environmental Specialist  
Oklahoma Corporation Commission  
Fuel Storage Department  
P.O. Box 52000-200  
Oklahoma City, Oklahoma 73152-2000

Re: Oklahoma Military Department  
Armory, Seminole, Oklahoma

Dear Mr. Carrant:

On behalf of the Oklahoma Military Department, this submittal is intended to comply with Oklahoma Corporation Commission Regulation OAC 165:25-3-3 for a Site Check at the National Guard Armory located in Seminole, Oklahoma. If you have any questions concerning this report, please contact me at (405) 329-7167.

Sincerely,

David H. Cohenour  
Senior Hydrogeologist

cc: Captain Terrence Smith, OMD

**SITE CHECK**  
**NATIONAL GUARD ARMORY**  
**SEMINOLE, OKLAHOMA**

**1. Background Information**

**1.1 Tank Removal**

On August 29, 1997, Caldwell Environmental Associates, Inc. (CEA) removed a 1,000 gallon steel Underground Storage Tank (UST) and all associated piping from the National Guard Armory located in Seminole, Oklahoma. The UST was located immediately west of an Armory vehicle maintenance building (garage). The garage is located east-southeast of the main Armory building. The attached site location map shows the location of the site and adjacent property. The UST was found approximately one and one-half feet below ground surface (BGS) and was in excellent condition with no holes or leaks observed after removal. Gray sandstone was encountered from two to three feet BGS. Petroleum impacted sandstone was found below the former fuel island and to a much lesser extent below the UST.

All liquids remaining in the UST were pumped in to drums before UST removal. After the UST was inerted with dry ice, a 1.5 foot by 1.5 foot hole was cut in the end of the tank. Any residual liquids and sludge in the UST were removed from the tank for proper disposal. After the UST was removed and soil samples collected, impacted sandstone was placed back into the excavation first and clean fill sand was placed on top of the impacted soil and compacted to grade. This eliminated the direct contact hazard to fuel impacted soil, prevented surface water from entering the excavation, and eliminated the open pit safety hazard. All liquids removed from the tank were properly recycled and/or treated by Petroleum Wastewater Recycling of Oklahoma City, Oklahoma. All sludge removed from the tank was properly disposed of by Heritage Environmental Services, Inc. of Tulsa,

Oklahoma. The UST and all associated piping was removed from the site and recycled at Ferex Metals Recycling in Ada, Oklahoma.

Field monitoring during UST removal did not identify any fire, explosion, or vapor hazard while the UST was being removed. The excavation has been backfilled so no additional precautions are necessary to insure public safety from fire, explosion, or hazardous vapors.

### **1.2 Site Assessment for UST Closure**

Two soil (sandstone) samples were collected from the UST/fuel island excavation after the UST was removed for laboratory analysis. One sample of the sandstone was collected approximately three and one half feet below the former fuel island and one sandstone sample was collected approximately one foot directly below the bottom of the UST. The soil samples were shipped to ITS Environmental Laboratories of Richardson, Texas via overnight courier. The soil samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and naphthalene using EPA method 8020. The soil samples were also analyzed for volatile TPH using EPA method 8015 modified. The attached site map shows the locations where soil samples were collected and the location of the former UST system in relationship to the Armory building.

The sample collected below the former fuel island was reported by the laboratory above Oklahoma Corporation Commission action levels for volatile TPH (1,380 mg/kg) and ethylbenzene (20 mg/kg). The analytical results for the soil samples collected after UST removal are summarized in the attached table, and a copy of the laboratory report is attached.

### **1.3 Site Check Sample Collection**

On October 7, 1997, two soil borings (BH-1 and BH-2) and one temporary monitor well (MW-1) was installed at the site to collect one native soil sample and one ground water sample. The soil borings were drilled using a hollow stem auger drill rig by Professional

Services Industry (PSI) under the supervision of a CEA hydrogeologist. Soil was sampled continuously while drilling using a five foot long split tube sampling system. Soil samples were described using the Unified Soil Classification System (USCS) and bedrock samples were described using common geological terminology.

Shallow ground water flow under the site is believed to be to the northeast towards Magnolia Creek, located approximately 500 feet to the northeast of the former fuel island. Therefore, soil boring BH-1 was drilled approximately eight feet down slope (northeast) of the former fuel island and soil boring BH-2 was drilled approximately 40 feet east of the former fuel island (on the northeast side of the garage). Both soil borings were drilled to a depth of 20 feet BGS. Soil boring locations are shown on the attached site map.

A soil headspace gas survey was performed on soil samples composited over one or two foot intervals to determine the vertical extent of soil hydrocarbon impacts at the site. A soil headspace vapor survey measures the relative amount of volatile organic hydrocarbon vapor concentrations in soil pores in the saturated and unsaturated zones. In the unsaturated zone, volatile hydrocarbon vapors can exist in the soil pores, be adsorbed onto soil particles, or can occur as free hydrocarbon liquids in soil pores. Volatile hydrocarbons found in the saturated zone are usually adsorbed onto soil particles, exist as free liquid in the soil pores, and in much smaller concentrations are dissolved in the ground water. By obtaining soil headspace gas readings at vertically and horizontally distributed locations, the extent of hydrocarbon impacts to the subsurface can be defined. The ambient temperature headspace (ATH) method (Van Zyl, 1987) was utilized for the soil organic vapor survey conducted at the facility. This method consists of collecting composite soil samples over one or two foot intervals over the total depth drilled and placing the samples in zip lock plastic bags. A vacant headspace is left in the bag, and the bag is sealed. Approximately thirty minutes following sample collection the headspace vapors are analyzed for organic constituents using a portable organic vapor meter (OVM) photoionization detector. Organic vapor measurements were taken on all samples by piercing the plastic bag with the tip of the OVM probe into the headspace of the sample

bag. Organic vapor readings were then obtained from the OVM display in parts per million (ppm) total ionizable hydrocarbons and recorded on the soil boring records. The OVM has a detection limit of 0.1 parts per million of total ionizable hydrocarbons. The OVM was calibrated to an isobutylene gas standard of 100 parts per million prior to taking any organic vapor measurements.

Sandstone was encountered in both borings at approximately two and one-half feet BGS to 20 feet BGS. The water table was encountered while drilling at approximately 15 feet BGS in boring BH-1 and 14 feet BGS in boring BH-2. The water level did not rise significantly after the completion of drilling activities. The organic vapor survey did not detect any volatile hydrocarbons above background concentrations in drilling samples. Therefore, a sandstone sample was collected from boring BH-1 at approximately 15 feet BGS (just above the water table) for laboratory analysis. A temporary monitor well (MW-1) was installed in boring BH-1 and a ground water sample collected for laboratory analysis. The sandstone sample and the ground water sample were transported to ITS Environmental Laboratories of Richardson, Texas via overnight courier. The samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and naphthalene using EPA method 8020 and for volatile TPH using EPA method 8015 modified. The attached site map shows the locations of the soil borings and monitor well and the location of the former UST system in relationship to the garage building. Copies of soil/rock boring records and a monitor well completion record are also attached.

## **2.0 Site Check Sample Results**

The soil sample collected from boring BH-1 and the ground water sample collected from monitor well MW-1 were reported by the analytical laboratory's detection limits for BTEX, naphthalene, and volatile TPH. Soil and ground water analytical results are summarized with the soil sample results the collected from the UST/fuel island excavation after UST removal in the following table.

### Soil and Ground Water Sample Analytical Results (ppm)

| Parameter    | UST Sample Location                |                      |             |              |
|--------------|------------------------------------|----------------------|-------------|--------------|
|              | BH-1<br>Soil Sample<br>15 feet BGS | MW-1<br>Ground Water | Fuel Island | UST          |
| Benzene      | <0.002                             | <0.002               | <2 mg/kg    | <0.002 mg/kg |
| Toluene      | <0.002                             | <0.002               | 20 mg/kg    | <0.002 mg/kg |
| Ethylbenzene | <0.002                             | <0.002               | 20 mg/kg    | 1.64 mg/kg   |
| Xylenes      | <0.002                             | <0.002               | 187 mg/kg   | 10.6 mg/kg   |
| Naphthalene  | <0.01                              | <0.01                | 21 mg/kg    | 0.0172 mg/kg |
| TPH Volatile | <0.05                              | <0.05                | 1380 mg/kg  | 0.55 mg/kg   |

Notes: All results in mg/kg (ppm)

< denotes sample results are less than laboratory's detection limit.

### 3.0 Conclusions

One soil was collected from a soil boring and one ground water sample from a monitor well located approximately eight feet down slope of the former fuel island. Furthermore, an additional soil boring was drilled east-northeast of the former fuel island and field screening did not detect any petroleum impacts above background levels. If a significant petroleum release had occurred, the location sampled (BH-1/MW-1) is the most likely area to be impacted if ground water flow at the site is in the same direction as surface water run-off (which is most usually the case). Since the soil and ground water samples were reported by the analytical laboratory well below OCC action levels, no further action is recommended at the site.

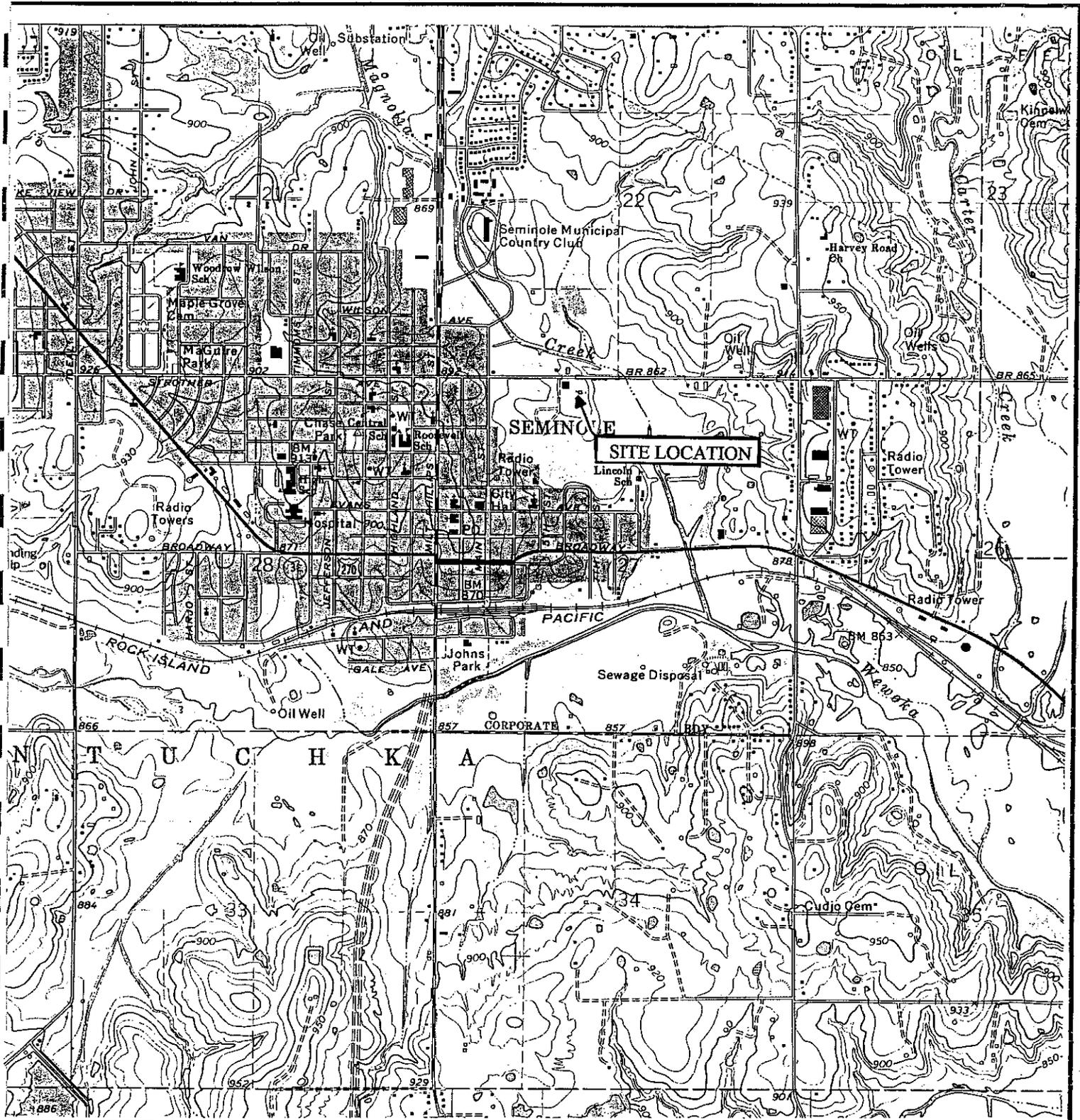
**Attachments:**

**Site Location Map**

**Site Maps**

**Laboratory Report**

**Soil/Rock Boring and Monitor Well Records**

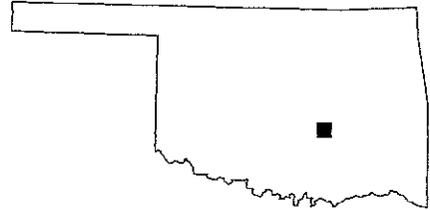


OKLAHOMA

SCALE

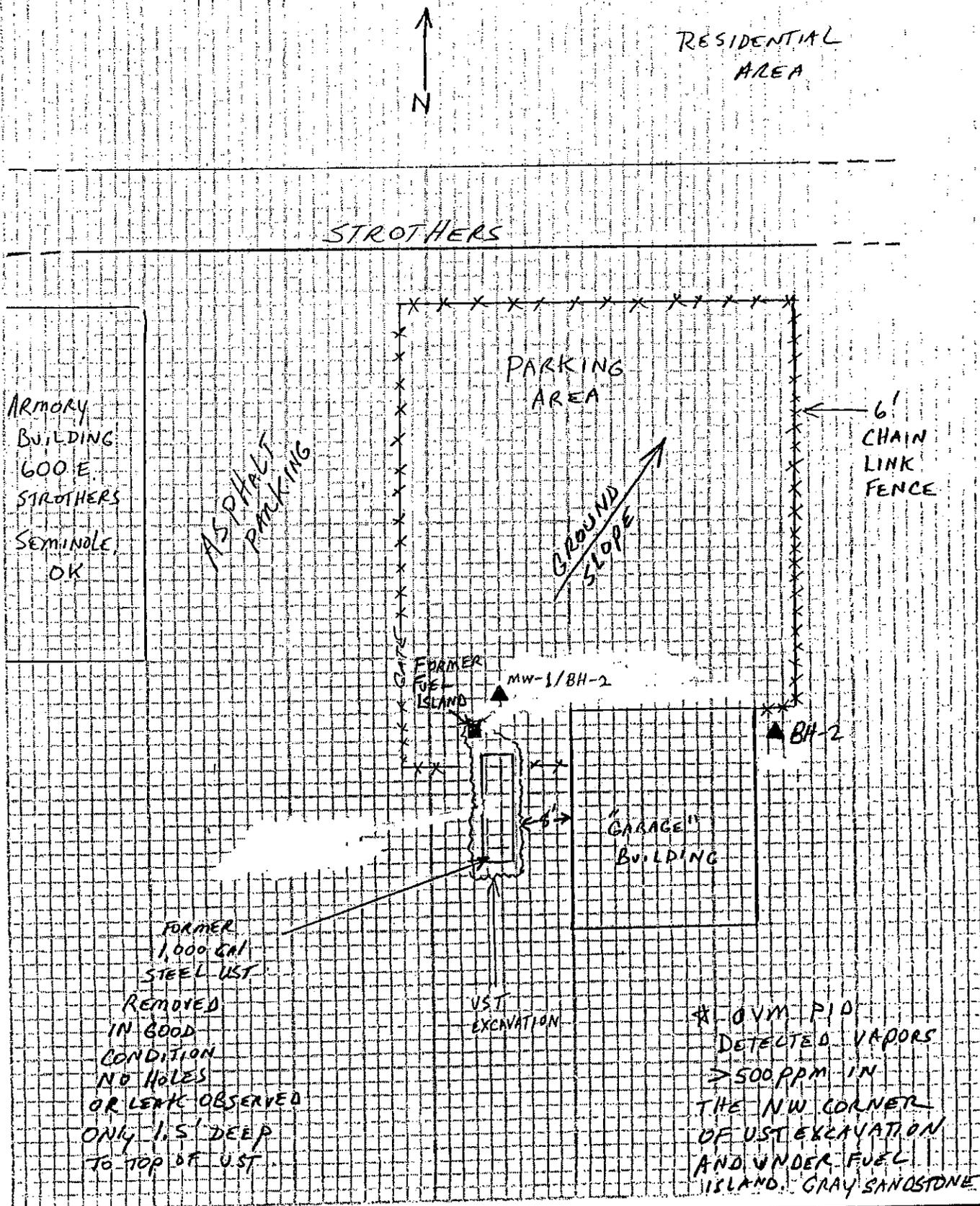


0 0.5 1 mile





### ARMORY SEMINOLE UST SITE MAP





### ARMORY SEMINOLE UST SITE MAP



RESIDENTIAL AREA

STROTHERS

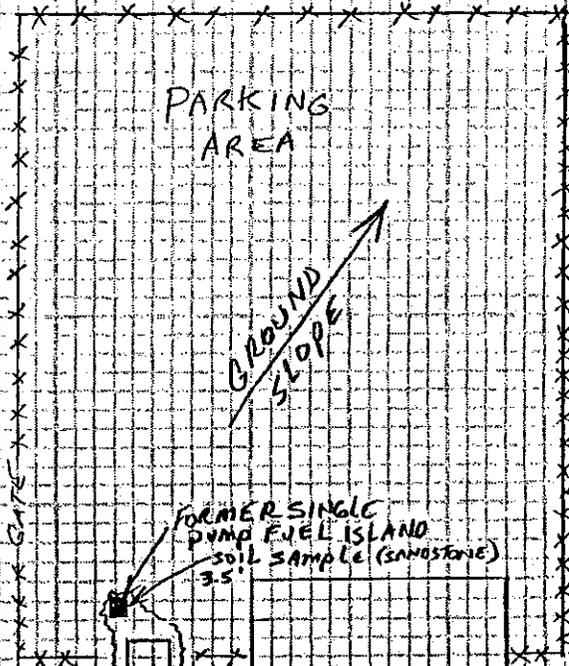
ARMORY BUILDING  
600 E.  
STROTHERS  
SEMINOLE,  
OK

ASPHALT  
PARKING

PARKING  
AREA

6'  
CHAIN  
LINK  
FENCE

GROUND  
SLOPE



FORMER SINGLE  
PUMP FUEL ISLAND  
SOIL SAMPLE (SANDSTONE)  
3.5'

SOIL SAMPLE  
COLLECTED  
(SANDSTONE) 5.5'

'GARAGE'  
BUILDING

FORMER  
1,000-GAL  
STEEL UST

REMOVED  
IN GOOD  
CONDITION  
NO HOLES  
OR LEAK OBSERVED  
ONLY 1.5' DEEP  
TO TOP OF UST

UST  
EXCAVATION

\* OVM PID  
DETECTED VAPORS  
> 500 PPM IN  
THE NW CORNER  
OF UST EXCAVATION  
AND UNDER FUEL  
ISLAND. GRAY SANDSTONE

# SOIL/ROCK BORING RECORD

| DEPTH<br>(FEET) | SAMPLE |                   |                 | SOIL/LITHOLOGICAL DESCRIPTION  | UNIFIED SOIL CLASSIFICATION | GRAPHIC LOG       | GEOLOGIC UNIT               | REMARKS |
|-----------------|--------|-------------------|-----------------|--|-----------------------------|-------------------|-----------------------------|---------|
|                 | NUMBER | OVM READING (PPM) | RECOVERY (FEET) |  |                             |                   |                             |         |
|                 | NS     | NS                | NA              | GROUND ELEVATION:<br>GRAVEL FILL   |                             | NA                | NA                          | 0       |
| 1               | 1      | 0                 | 4.0'            | SILTY CLAY: 30-40% SILT, 60-70% CLAY, MOIST, SL. STIFF, DARK REDDISH BROWN (5YR 3/4)   | CL                          | [Hatched Pattern] | NA                          |         |
| 2               | 2      | 0                 |                 |  |                             |                   |                             |         |
| 3               | NR     | NR                | 3.0'            | SANDSTONE: VERY FINE GRAINED TO FINE GRAINED QUARTZ, SOFT, WEAKLY CEMENTED, 0 TO 10% SILT MOIST, LIGHT GRAY (5Y 7/2) TO WHITE (5Y 8/1) | NA                          | [Dotted Pattern]  | PENN. AGE VAMODSA FORMATION | 5       |
| 4               | 4      | 2.2               |                 |  |                             |                   |                             |         |
| 5               | NR     | NR                | 4.0'            | BECOMING HARDER BELOW 5' (WEAK TO MOD. CEMENT)   |                             | [Dotted Pattern]  |                             | 10      |
| 6               | 6      | 4.0               |                 |  |                             |                   |                             |         |
| 7               | NR     | NR                | 2.2'            | SAMPLES V. MOIST TO WET BELOW 13'  |                             | [Dotted Pattern]  |                             | 15      |
| 8               | 8      | 0                 |                 |  |                             |                   |                             |         |
| 9               | NR     | NR                |                 | SAMPLES SATURATED BELOW 15'  |                             | [Dotted Pattern]  |                             | 20      |
| 10              | 10     | 0                 |                 |  |                             |                   |                             |         |
| 11              | NR     | NR                |                 | NO STAIN OR ODOR IN SAMPLES OR DRILL CUTTINGS  |                             | [Dotted Pattern]  |                             | 25      |
| 12              | 12     | 0                 |                 |  |                             |                   |                             |         |
| 13              | NR     | NR                |                 | TOTAL DEPTH 20'  |                             | [Dotted Pattern]  |                             | 30      |
| 14              | 14     | 0                 |                 |  |                             |                   |                             |         |
| 15              | NR     | NR                |                 | TEMP. WELL INSTALLED (MW-1)  |                             | [Dotted Pattern]  |                             | 35      |
| 16              | 16     | 0                 |                 |  |                             |                   |                             |         |

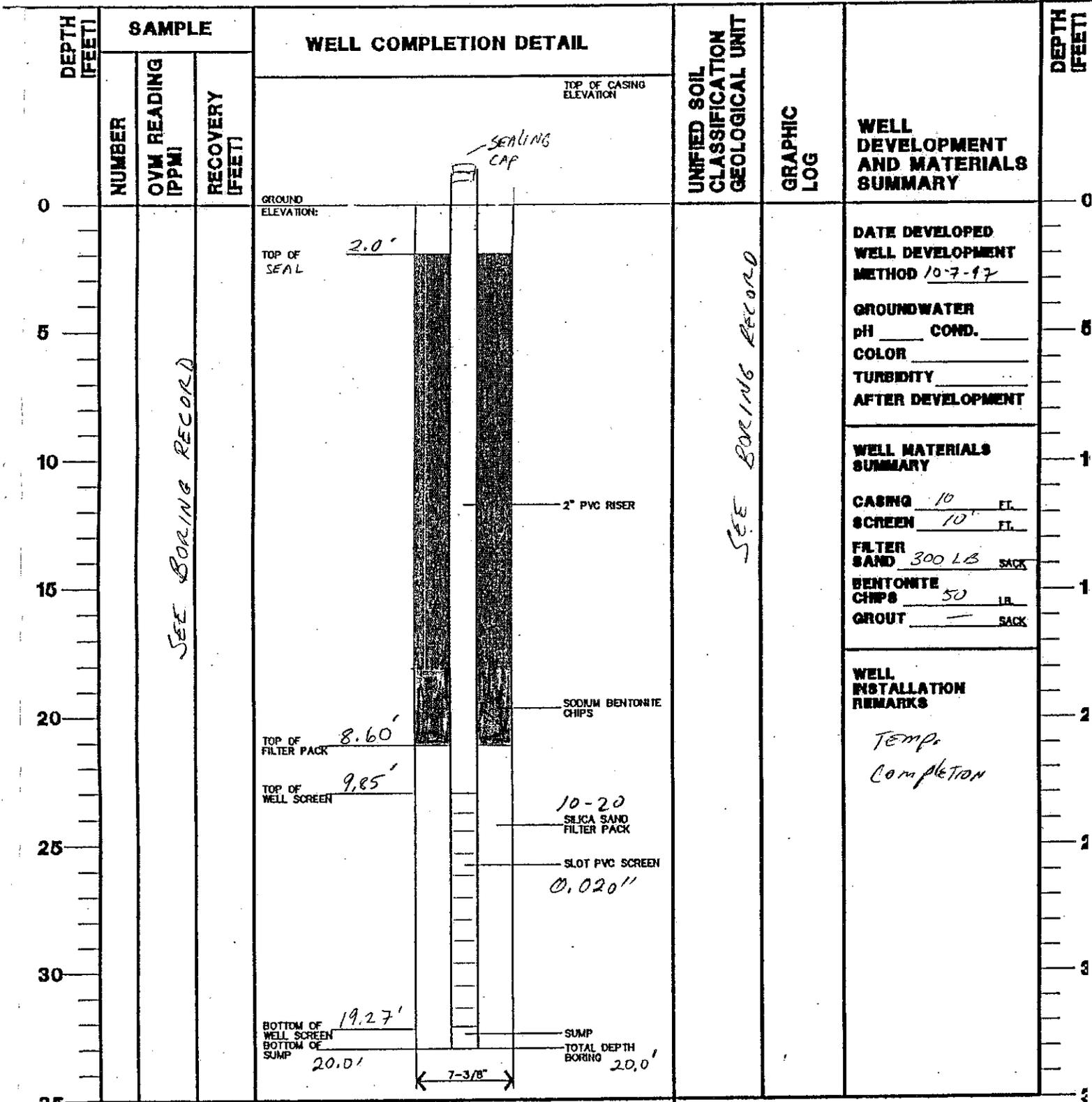
## EXPLANATION

WATER TABLE (TIME OF BORING)  
 WATER TABLE (24 HOURS)  
 M: ORGANIC VAPOR MONITOR  
 1: NO RECOVERY  
 2: NOT APPLICABLE  
 3: WATER LEVEL

DATE DRILLED: 10-7-97  
 DRILLING METHOD: HSA  
 DRILLED BY: PSI  
 LOGGED BY: DHC

JOB NAME: OMD SEMINOLE  
 BORING NUMBER: BH-1/MW-1  
 CHECKED BY: TDA

# WELL COMPLETION RECORD



DATE DEVELOPED \_\_\_\_\_  
 WELL DEVELOPMENT METHOD 10-7-97  
 GROUNDWATER pH \_\_\_\_\_ COND. \_\_\_\_\_  
 COLOR \_\_\_\_\_  
 TURBIDITY \_\_\_\_\_  
 AFTER DEVELOPMENT

WELL MATERIALS SUMMARY  
 CASING 10 FT.  
 SCREEN 10 FT.  
 FILTER SAND 300 LB SACK  
 BENTONITE CHIPS 50 LB.  
 GROUT \_\_\_\_\_ SACK

WELL INSTALLATION REMARKS  
Temp. Completion

## EXPLANATION

JOB NAME: OMD SEMINOLE

WATER TABLE (TIME OF BORING)  
 WATER TABLE (24 HOURS)  
 OVM : ORGANIC VAPOR MONITOR  
 NR: NO RECOVERY  
 NA : NOT APPLICABLE  
 WL : WATER LEVEL  
 SOIL/ROCK SAMPLING METHOD: 5' CONTINUOUS TUBE

DATE DRILLED 10-7-97  
 DRILLING METHOD HSA  
 DRILLED BY PSI  
 LOGGED BY DHC  
 MONITOR WELL INSTALLED BY PSI

WELL NUMBER: MW-1/BH-1

CHECKED BY: TDA

# SOIL/ROCK BORING RECORD

| DEPTH<br>(FEET) | SAMPLE |                      |                    | SOIL/LITHOLOGICAL DESCRIPTION   | UNIFIED SOIL<br>CLASSIFICATION | GRAPHIC<br>LOG | GEOLOGIC<br>UNIT                     | REMARKS |
|-----------------|--------|----------------------|--------------------|---|--------------------------------|----------------|--------------------------------------|---------|
|                 | NUMBER | OVM READING<br>(PPM) | RECOVERY<br>(FEET) |   |                                |                |                                      |         |
| 0               |        |                      |                    | GROUND ELEVATION:   |                                |                |                                      | 0       |
| 1               | 0      | 3.2'                 | 3.2'               | SILTY SAND: 40% SILT, 60%<br>VERY FINE GRAINED QUARTZ SAND,<br>SL MDIST, STRONG BROWN (7.5YR 4/6)   | SM                             |                | NA                                   |         |
| 2               | 0      |                      |                    |   | CL                             | / / / / /      | NA                                   |         |
| 3               | 0      | 2.5'                 | 2.5'               | SILTY CLAY (WEATHERED SHALE),<br>30-40% SILT, 60-70% CLAY,<br>VERY STIFF, DRY, DARK REDDISH<br>BROWN (5YR 3/4)                                      | SAND-<br>STONE                 | . . . . .      | PENN.<br>AGE<br>VANDUSA<br>FORMATION | 5       |
| 4               | 0      |                      |                    |   |                                |                |                                      |         |
| 5               | 0      | 3.7'                 | 3.7'               | SANDSTONE; VERY FINE TO FINE<br>GRAINED QUARTZ, MOD. WELL SORTED,<br>WEAKLY CEMENTED, 0 TO 10% SILT<br>MOIST, LT GRAY (5Y 7/2) TO<br>WHITE (5Y 8/1) |                                | . . . . .      |                                      | 10      |
| 6               | 0      |                      |                    |   |                                |                |                                      |         |
| 7               | 0      | 3.6'                 | 3.6'               | WEAK TO MODERATELY CEMENTED<br>BELOW 5'<br><br>SAMPLES VERY MOIST TO<br>WET @ 13' SAT, BELOW 15'  |                                | . . . . .      |                                      | 15      |
| 8               | 0      |                      |                    |   |                                |                |                                      |         |
| 9               | NR     | NR                   |                    | NO STAIN OR ODDOR IN SAMPLES.   |                                | . . . . .      |                                      | 20      |
| 10              |        |                      |                    | T.O. 20'  |                                | . . . . .      |                                      | 25      |
| 15              |        |                      |                    |   |                                | . . . . .      |                                      | 30      |
| 20              |        |                      |                    |   |                                | . . . . .      |                                      | 35      |

## EXPLANATION

WATER TABLE (TIME OF BORING) \_\_\_\_\_ DATE DRILLED 10-7-97  
 WATER TABLE (24 HOURS) \_\_\_\_\_ DRILLING METHOD HSA  
 DRILLED BY PSI  
 LOGGED BY DHC  
 K/R ROCK SAMPLING METHOD: 5' CONTINUOUS TUBE PAGE 1 OF 1

JOB NAME: OMD SEMINOLE

BORING NUMBER: BH-2

CHECKED BY: TDA

M : ORGANIC VAPOR MONITOR  
 ( ) : NO RECOVERY  
 ( ) : NOT APPLICABLE  
 . : WATER LEVEL



# Intertek Testing Services Environmental Laboratories

## ANALYTICAL REPORT

DATE RECEIVED : 8-OCT-1997

REPORT NUMBER : D97-12166

REPORT DATE : 14-OCT-1997

ATTENTION : Mr. David Cohenour  
SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
: Norman, OK 73069

PROJECT : OMD Seminole

Included in this data package are the analytical results for the sample group which you have submitted to Intertek Testing Services for analysis. These results are representative of the samples as received by the laboratory.

The information contained herein has undergone extensive review and is deemed accurate and complete. Sample analysis and quality control were performed in accordance with all applicable protocols. Please refrain from reproducing this report except in its entirety.

If you have any questions regarding this report and its associated materials please call your Project Manager at (972) 238-5591.

We appreciate the opportunity to serve you and look forward to providing continued service in the future.

Martin Jeffus  
General Manager



# Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 8-OCT-1997

REPORT NUMBER : D97-12166-1

REPORT DATE : 14-OCT-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
                          : Norman, OK 73069  
ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Soil  
ID MARKS : OMD Seminole BH-1 15'  
PROJECT : OMD Seminole  
DATE SAMPLED : 7-OCT-1997  
ANALYSIS METHOD : EPA 8020B /1  
ANALYZED BY : JCH  
ANALYZED ON : 10-OCT-1997  
DILUTION FACTOR : 1  
METHOD FACTOR : 10  
QC BATCH NO : 27-101097

| VOLATILE AROMATIC ORGANICS |                    |                       |
|----------------------------|--------------------|-----------------------|
| TEST REQUESTED             | DETECTION LIMIT    | RESULTS               |
| Benzene                    | 2 $\mu\text{g/Kg}$ | < 2 $\mu\text{g/Kg}$  |
| Ethylbenzene               | 2 $\mu\text{g/Kg}$ | < 2 $\mu\text{g/Kg}$  |
| Toluene                    | 2 $\mu\text{g/Kg}$ | < 2 $\mu\text{g/Kg}$  |
| Xylenes                    | 2 $\mu\text{g/Kg}$ | < 2 $\mu\text{g/Kg}$  |
| Naphthalene                |                    | < 10 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA      |                 |
|---------------------------|-----------------|
| SURROGATE COMPOUND        | SPIKE RECOVERED |
| 4-Bromofluorobenzene (SS) | 113 %           |

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1089 East Collins Boulevard Richardson, TX 75081  
Telephone (972) 238-5591 Fax (972) 238-5592

**ITS** Intertek Testing Services  
Environmental Laboratories

DATE RECEIVED : 8-OCT-1997

REPORT NUMBER : D97-12166-1

REPORT DATE : 14-OCT-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates

ADDRESS : P.O. Box 1608

: Norman, OK 73069

ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Soil

ID MARKS : OMD Seminole BH-1 15'

PROJECT : OMD Seminole

DATE SAMPLED : 7-OCT-1997

ANALYSIS METHOD : EPA 5030/8015B /1

ANALYZED BY : JCH

ANALYZED ON : 10-OCT-1997

DILUTION FACTOR : 1

METHOD FACTOR : 1

QC BATCH NO : 28-101097

| GASOLINE RANGE ORGANICS     |                     |                       |
|-----------------------------|---------------------|-----------------------|
| TEST REQUESTED              | DETECTION LIMIT     | RESULTS               |
| Total Petroleum Hydrocarbon | 50 $\mu\text{g/Kg}$ | < 50 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA |  |                 |
|----------------------|--|-----------------|
| SURROGATE COMPOUND   |  | SPIKE RECOVERED |
| Fluorobenzene        |  | 82.5 %          |



# Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 8-OCT-1997

REPORT NUMBER : D97-12166-1

REPORT DATE : 14-OCT-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates

ADDRESS : P.O. Box 1608

: Norman, OK 73069

ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Soil

ID MARKS : OMD Seminole BH-1 15'

PROJECT : OMD Seminole

DATE SAMPLED : 7-OCT-1997

| MISCELLANEOUS ANALYSES   |                 |         |
|--|-----------------|---------|
| TEST REQUESTED   | DETECTION LIMIT | RESULTS |
| Total Solids /1  | 0.01 %          | 93.2 %  |
| Analyzed using ASTM D2216 mod. on 10-OCT-1997 by JJH<br>QC Batch No : 242015 |                 |         |

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# Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 8-OCT-1997

REPORT NUMBER : D97-12166-2

REPORT DATE : 14-OCT-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
          : Norman, OK 73069  
ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Liquid  
ID MARKS : OMD Seminol MW-1  
PROJECT : OMD Seminole  
DATE SAMPLED : 7-OCT-1997  
ANALYSIS METHOD : EPA 8020B /1  
ANALYZED BY : JCH  
ANALYZED ON : 11-OCT-1997  
DILUTION FACTOR : 1  
METHOD FACTOR : 10  
QC BATCH NO : 46-101197

| VOLATILE AROMATIC ORGANICS |                 |             |
|----------------------------|-----------------|-------------|
| TEST REQUESTED             | DETECTION LIMIT | RESULTS     |
| Benzene                    | 2 µg/L          | < 2 µg/L    |
| Ethylbenzene               | 2 µg/L          | < 2 µg/L    |
| Toluene                    | 2 µg/L          | < 2 µg/L    |
| Xylenes                    | 2 µg/L          | < 2 µg/L    |
| Naphthalene                |                 | < 10.0 µg/L |

| QUALITY CONTROL DATA          |  |                 |
|-------------------------------|--|-----------------|
| SURROGATE COMPOUND            |  | SPIKE RECOVERED |
| 1-Chloro-3-fluorobenzene (SS) |  | 97.2 %          |



# Intertek Testing Services

## Environmental Laboratories

DATE RECEIVED : 8-OCT-1997

REPORT NUMBER : D97-12166-2

REPORT DATE : 14-OCT-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
                          : Norman, OK 73069  
ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Liquid  
ID MARKS : OMD Seminol MW-1  
PROJECT : OMD Seminole  
DATE SAMPLED : 7-OCT-1997  
ANALYSIS METHOD : EPA 5030/8015B /1  
ANALYZED BY : VHT  
ANALYZED ON : 10-OCT-1997  
DILUTION FACTOR : 1  
METHOD FACTOR : 1  
QC BATCH NO : 33-101097

| GASOLINE RANGE ORGANICS     |                 |             |
|-----------------------------|-----------------|-------------|
| TEST REQUESTED              | DETECTION LIMIT | RESULTS     |
| Total Petroleum Hydrocarbon | 50.0 µg/L       | < 50.0 µg/L |

| QUALITY CONTROL DATA |  |                 |
|----------------------|--|-----------------|
| SURROGATE COMPOUND   |  | SPIKE RECOVERED |
| Fluorobenzene (SS)   |  | 101 %           |



# Intertek Testing Services Environmental Laboratories

REPORT DATE : 14-OCT-1997

REPORT NUMBER : D97-12166

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ATTENTION : Mr. David Cohenour  
PROJECT : OMD Seminole

## LABORATORY QUALITY CONTROL REPORT

| ANALYTE          | Benzene    | Ethylbenzene | Benzene    | Ethylbenzene | Total Petroleum Hydrocarbon |
|------------------|------------|--------------|------------|--------------|-----------------------------|
| BATCH NO.        | 46-101197  | 46-101197    | 27-101097  | 27-101097    | 33-101097                   |
| LCS LOT NO.      | AC033-77A  | AC033-77A    | AC033-62A  | AC033-62A    | AC033-61A                   |
| PREP METHOD      | ---        | ---          | ---        | ---          | ---                         |
| PREPARED BY      | ---        | ---          | ---        | ---          | ---                         |
| ANALYSIS METHOD  | EPA 8020B  | EPA 8020B    | EPA 8020B  | EPA 8020B    | EPA 5030/8015B              |
| ANALYZED BY      | JCH        | JCH          | JCH        | JCH          | VHT                         |
| UNITS            | µg/L       | µg/L         | µg/Kg      | µg/Kg        | µg/L                        |
| METHOD BLANK     | < 2.00     | < 2.00       | < 2.00     | < 2.00       | < 50.0                      |
| SPIKE LEVEL      | 200        | 200          | 250        | 250          | 5000                        |
| SPK REC LIMITS   | 39.0 - 150 | 32.0 - 160   | 70.0 - 130 | 70.0 - 130   | 75.0 - 125                  |
| SPK RPD LIMITS   | 20.0       | 20.0         | 25.0       | 25.0         | 25.0                        |
| MS RESULT        | 201        | 213          | 239        | 242          | 5050                        |
| MS RECOVERY %    | 101        | 107          | 95.6       | 96.8         | 101                         |
| MSD RESULT       | 203        | 214          | 279        | 282          | 4930                        |
| MSD RECOVERY %   | 102        | 107          | 112        | 113          | 98.6                        |
| MS/MSD RPD %     | 0.99       | 0.47         | 15.4       | 15.3         | 2.40                        |
| BS RESULT        | NA         | NA           | NA         | NA           | NA                          |
| BS RECOVERY %    | NA         | NA           | NA         | NA           | NA                          |
| BSD RESULT       | NA         | NA           | NA         | NA           | NA                          |
| BSD RECOVERY %   | NA         | NA           | NA         | NA           | NA                          |
| BS/BSD RPD %     | NA         | NA           | NA         | NA           | NA                          |
| DUP RPD LIMITS   | ---        | ---          | ---        | ---          | ---                         |
| DUPLICATE RPD %  | NA         | NA           | NA         | NA           | NA                          |
| LCS LEVEL        | 20.0       | 20.0         | 50.0       | 50.0         | 500                         |
| LCS REC LIMITS   | 39.0 - 150 | 32.0 - 160   | 70.0 - 130 | 70.0 - 130   | 75.0 - 125                  |
| LCS RESULT       | 19.1       | 20.3         | 52.9       | 54.5         | 437                         |
| LCS RECOVERY %   | 95.5       | 102          | 106        | 109          | 87.4                        |
| SPIKE SAMPLE ID  | 12166-2    | 12166-2      | 12193-2    | 12193-2      | 12166-2                     |
| SAMPLE VALUE     | < 2.00     | < 2.00       | < 2.00     | < 2.00       | < 50.0                      |
| DUP. SAMPLE ID   | ---        | ---          | ---        | ---          | ---                         |
| DUP SAMPLE VAL/1 | ---        | ---          | ---        | ---          | ---                         |
| DUP SAMPLE VAL/2 | ---        | ---          | ---        | ---          | ---                         |

NA Not applicable

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# Intertek Testing Services Environmental Laboratories

REPORT DATE : 14-OCT-1997

REPORT NUMBER : D97-12166

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ATTENTION : Mr. David Cohenour  
PROJECT : OMD Seminole

## LABORATORY QUALITY CONTROL REPORT

| ANALYTE          | Total Petroleum Hydrocarbon |
|------------------|-----------------------------|
| BATCH NO.        | 28-101097                   |
| LCS LOT NO.      | AC033-62A                   |
| PREP METHOD      | ---                         |
| PREPARED BY      | ---                         |
| ANALYSIS METHOD  | EPA 5030/8015B              |
| ANALYZED BY      | JCH                         |
| UNITS            | µg/Kg                       |
| METHOD BLANK     | < 50.0                      |
| SPIKE LEVEL      | 2500                        |
| SPK REC LIMITS   | 70.0 - 130                  |
| SPK RPD LIMITS   | 25.0                        |
| MS RESULT        | 2510                        |
| MS RECOVERY %    | 100                         |
| MSD RESULT       | 2880                        |
| MSD RECOVERY %   | 115                         |
| MS/MSD RPD %     | 13.7                        |
| BS RESULT        | NA                          |
| BS RECOVERY %    | NA                          |
| BSD RESULT       | NA                          |
| BSD RECOVERY %   | NA                          |
| BS/BSD RPD %     | NA                          |
| DUP RPD LIMITS   | ---                         |
| DUPLICATE RPD %  | NA                          |
| LCS LEVEL        | 500                         |
| LCS REC LIMITS   | 70.0 - 130                  |
| LCS RESULT       | 584                         |
| LCS RECOVERY %   | 117                         |
| SPIKE SAMPLE ID  | 12193-2                     |
| SAMPLE VALUE     | < 50.0                      |
| DUP SAMPLE ID    | ---                         |
| DUP SAMPLE VAL/1 | ---                         |
| DUP SAMPLE VAL/2 | ---                         |

NA Not applicable

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Report to:

Invoice to

Company: ADDWELL ENV.

Address: P.O. BOX 1608

NORMANN DR 73069

Contact: DAVID COHENOUR

Phone: (405) 329-7167

Fax: (405) 329-7277

Contract/Quote #:

Company: SHOME

Address:

Contact: JULIE CRIDWELL

Phone:

PO/SO #:

Sampler's Name

DAVID COHENOUR

Sampler's Signature

David A. Cohenour

Proj. No.

Project Name OMD SEMINOLE

No./Type of Containers<sup>2</sup>

| Matrix <sup>1</sup> | Date | Time | Com p | Gr a b | Identifying Marks of Sample(s) | VOA | A/G 1 Lt. | 250 ml | P/O |
|---------------------|------|------|-------|--------|--------------------------------|-----|-----------|--------|-----|
| S                   | 10-7 | 0930 | X     | X      | OMD SEMINOLE BH-1 15'          |     |           | X      |     |
| W                   | 10-7 | 1200 | X     | X      | OMD SEMINOLE RW-1              | 6   |           |        |     |

Lab Sample ID (Lab Use Only)

2166-1  
-2

ANALYSIS REQUESTED

BTEX METH. 8020 + NAPHTHALENE  
TPH GRO METH. 8015 MOD

Lab use only  
Due Date:

Temp. of coolers when received (C°):

1 2 3 4 5

Custody Seal Intact N/Y

Intact N/Y

Screened For Radioactivity Y

Turn around time  Priority 1 or Standard

Priority 2 or 50% \*

Priority 3 or 100% \*

Priority 4 EHS (Dallas Only)

\* Must Coordinate with Project Manager

Shipment For Case Complete

Yes  No

Relinquished by: (Signature)

Date: 10-7-97 Time: 1500

Received by: (Signature)

Date: 10-8-97 Time: 10:00

Remarks

Relinquished by: (Signature)

Date: 10-7-97 Time: 1500

Received by: (Signature)

Date: 10-8-97 Time: 10:00

Relinquished by: (Signature)

Date: 10-7-97 Time: 1500

Received by: (Signature)

Date: 10-8-97 Time: 10:00

Client's delivery of samples constitutes acceptance of ITS Environmental Laboratories terms and conditions contained in the Price Schedule.

**ORIGINAL**

<sup>1</sup> Matrix WW - Wastewater

W - Water

S - Soil

SD - Solid

L - Liquid

A - Air Bag

C - Charcoal tube

SL - Sludge

O - Oil

ITS cannot accept verbal changes. Please Fax written changes to

<sup>2</sup> Container VOA - 40 ml vial

A/G - Amber / Or Glass 1 Liter

250 ml - Glass wide mouth

P/O - Plastic or other

SL - Sludge

ITS cannot accept verbal changes. Please Fax written changes to (972) 238-5591



# Intertek Testing Services Environmental Laboratories

## ANALYTICAL REPORT

DATE RECEIVED : 30-AUG-1997

REPORT NUMBER : D97-10623

REPORT DATE : 9-SEP-1997

ATTENTION : Mr. David Cohenour  
SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
: Norman, OK 73069

PROJECT : CMD Seminole UST Closure

Included in this data package are the analytical results for the sample group which you have submitted to Intertek Testing Services for analysis. These results are representative of the samples as received by the laboratory.

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Martin Jeffus  
General Manager



# Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 30-AUG-1997

REPORT NUMBER : D97-10623-1

REPORT DATE : 9-SEP-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
: Norman, OK 73069  
ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Soil  
ID MARKS : OMD Seminole UST Bottom  
PROJECT : CMD Seminole UST Closure  
DATE SAMPLED : 29-AUG-1997  
ANALYSIS METHOD : EPA 8020 /1  
ANALYZED BY : RFG  
ANALYZED ON : 8-SEP-1997  
DILUTION FACTOR : 1  
METHOD FACTOR : 10  
QC BATCH NO : 27-090897

| VOLATILE AROMATIC ORGANICS |                    |                       |
|----------------------------|--------------------|-----------------------|
| TEST REQUESTED             | DETECTION LIMIT    | RESULTS               |
| Benzene                    | 2 $\mu\text{g/Kg}$ | < 2 $\mu\text{g/Kg}$  |
| Ethylbenzene               | 2 $\mu\text{g/Kg}$ | < 2 $\mu\text{g/Kg}$  |
| Toluene                    | 2 $\mu\text{g/Kg}$ | < 2 $\mu\text{g/Kg}$  |
| Xylenes                    | 2 $\mu\text{g/Kg}$ | < 2 $\mu\text{g/Kg}$  |
| Naphthalene                |                    | 17.2 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA      |  |                 |
|---------------------------|--|-----------------|
| SURROGATE COMPOUND        |  | SPIKE RECOVERED |
| 4-Bromofluorobenzene (SS) |  | 105 %           |



# Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 30-AUG-1997

REPORT NUMBER : D97-10623-1

REPORT DATE : 9-SEP-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
: Norman, OK 73069  
ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Soil  
ID MARKS : OMD Seminole UST Bottom  
PROJECT : CMD Seminole UST Closure  
DATE SAMPLED : 29-AUG-1997  
ANALYSIS METHOD : EPA 5030/8015M /1  
ANALYZED BY : RFG  
ANALYZED ON : 8-SEP-1997  
DILUTION FACTOR : 1  
METHOD FACTOR : 10  
QC BATCH NO : 28-090897

| TPH BY GC (VOLATILE)        |                      |                      |
|-----------------------------|----------------------|----------------------|
| TEST REQUESTED              | DETECTION LIMIT      | RESULTS              |
| Total Petroleum Hydrocarbon | 500 $\mu\text{g/Kg}$ | 550 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA |  |                 |
|----------------------|--|-----------------|
| SURROGATE COMPOUND   |  | SPIKE RECOVERED |
| Fluorobenzene        |  | 89.7 %          |

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REPORT DATE : 9-SEP-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
                          : Norman, OK 73069  
ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Soil  
ID MARKS : OMD Seminole UST Bottom  
PROJECT : CMD Seminole UST Closure  
DATE SAMPLED : 29-AUG-1997

| MISCELLANEOUS ANALYSES   |                 |         |
|--|-----------------|---------|
| TEST REQUESTED   | DETECTION LIMIT | RESULTS |
| Total Solids /1  | 0.01 %          | 93.4 %  |
| Analyzed using ASTM D2216 mod. on 8-SEP-1997 by DPV<br>QC Batch No : 214014B |                 |         |



# Intertek Testing Services Environmental Laboratories

DATE RECEIVED : 30-AUG-1997

REPORT NUMBER : D97-10623-2

REPORT DATE : 9-SEP-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
: Norman, OK 73069  
ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Soil  
ID MARKS : OMD Seminole Fuel Island  
PROJECT : CMD Seminole UST Closure  
DATE SAMPLED : 29-AUG-1997  
ANALYSIS METHOD : EPA 5030/8015M /1  
ANALYZED BY : RFG  
ANALYZED ON : 8-SEP-1997  
DILUTION FACTOR : 1000  
METHOD FACTOR : 1  
QC BATCH NO : 28-090897

| TPH BY GC (VOLATILE)        |                        |                          |
|-----------------------------|------------------------|--------------------------|
| TEST REQUESTED              | DETECTION LIMIT        | RESULTS                  |
| Total Petroleum Hydrocarbon | 50000 $\mu\text{g/Kg}$ | 1380000 $\mu\text{g/Kg}$ |

| QUALITY CONTROL DATA |  |                 |
|----------------------|--|-----------------|
| SURROGATE COMPOUND   |  | SPIKE RECOVERED |
| Fluorobenzene        |  | 95.7 %          |



Intertek Testing Services  
Environmental Laboratories

DATE RECEIVED : 30-AUG-1997

REPORT NUMBER : D97-10623-2

REPORT DATE : 9-SEP-1997

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ADDRESS : P.O. Box 1608  
                          : Norman, OK 73069  
ATTENTION : Mr. David Cohenour

SAMPLE MATRIX : Soil  
ID MARKS : OMD Seminole Fuel Island  
PROJECT : CMD Seminole UST Closure  
DATE SAMPLED : 29-AUG-1997

| MISCELLANEOUS ANALYSES   |                 |         |
|--|-----------------|---------|
| TEST REQUESTED   | DETECTION LIMIT | RESULTS |
| Total Solids /1  | 0.01 %          | 93.1 %  |
| Analyzed using ASTM D2216 mod. on 8-SEP-1997 by DPV<br>QC Batch No : 214014B |                 |         |



# Intertek Testing Services Environmental Laboratories

REPORT DATE : 9-SEP-1997

REPORT NUMBER : D97-10623

SAMPLE SUBMITTED BY : Caldwell Environmental Associates  
ATTENTION : Mr. David Cohenour  
PROJECT : CMD Seminole UST Closure

## LABORATORY QUALITY CONTROL REPORT

| ANALYTE          | Benzene    | Ethylbenzene | Total Petroleum Hydrocarbon |
|------------------|------------|--------------|-----------------------------|
| BATCH NO.        | 27-090897  | 27-090897    | 28-090897                   |
| LCS LOT NO.      | AC033-62A  | AC033-62A    | AC033-55A                   |
| PREP METHOD      | ---        | ---          | ---                         |
| PREPARED BY      | ---        | ---          | ---                         |
| ANALYSIS METHOD  | EPA 8020   | EPA 8020     | EPA 5030/8015M              |
| ANALYZED BY      | RFG        | RFG          | RFG                         |
| UNITS            | µg/Kg      | µg/Kg        | µg/Kg                       |
| METHOD BLANK     | < 2.00     | < 2.00       | < 50.0                      |
| SPIKE LEVEL      | 50.0       | 50.0         | 500                         |
| SPK REC LIMITS   | 70.0 - 130 | 70.0 - 130   | 70.0 - 130                  |
| SPK RPD LIMITS   | 25.0       | 25.0         | 25.0                        |
| MS RESULT        | 49.2       | 50.4         | 527                         |
| MS RECOVERY %    | 98.4       | 101          | 105                         |
| MSD RESULT       | 45.6       | 46.8         | 489                         |
| MSD RECOVERY %   | 91.2       | 93.6         | 97.8                        |
| MS/MSD RPD %     | 7.59       | 7.41         | 7.48                        |
| BS RESULT        | NA         | NA           | NA                          |
| BS RECOVERY %    | NA         | NA           | NA                          |
| BSD RESULT       | NA         | NA           | NA                          |
| BSD RECOVERY %   | NA         | NA           | NA                          |
| BS/BSD RPD %     | NA         | NA           | NA                          |
| DUP RPD LIMITS   | ---        | ---          | ---                         |
| DUPLICATE RPD %  | NA         | NA           | NA                          |
| LCS LEVEL        | 50.0       | 50.0         | 500                         |
| LCS REC LIMITS   | 70.0 - 130 | 70.0 - 130   | 70.0 - 130                  |
| LCS RESULT       | 48.1       | 46.5         | 495                         |
| LCS RECOVERY %   | 96.2       | 93.0         | 99.0                        |
| SPIKE SAMPLE ID  | 10625-8    | 10625-8      | 10625-8                     |
| SAMPLE VALUE     | < 2.00     | < 2.00       | < 50.0                      |
| DUP SAMPLE ID    | ---        | ---          | ---                         |
| DUP SAMPLE VAL/1 | ---        | ---          | ---                         |
| DUP SAMPLE VAL/2 | ---        | ---          | ---                         |

NA Not applicable

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