

**Targeted Brownfield Assessment
Port of Muskogee Expansion**
Southern Portion of FMRI (aka Fansteel Metals) Northwest Property
Area Retained by FMRI
Muskogee, Oklahoma

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

March, 2007

Prepared for:

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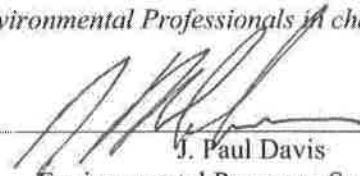
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"I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of this part."

"I have the 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 inquiries in conformance with the standards and practices set forth in 40 CFR Part 312."



Rita R. Kottke, Ph.D.
Environmental Programs Manager

Port of Muskogee Expansion -- FMRI NW Area
Phase I ESA
March 20, 2007
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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.

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1.0 EXECUTIVE SUMMARY

This report summarizes a Targeted Brownfield Assessment of a portion of the Northwest Property Area, located in the NE/4 of the SE/4 and the SE/4 of the SE/4 the NE/4, both in Section 17, Township 15 North, Range 19 East of the Indian Base and Meridian, Muskogee County, Oklahoma. This assessment included review of available records of the Department of Environmental Quality, the Nuclear Regulatory Commission, and the County Clerk's Office of the County of Muskogee, interviews with key personnel, and a site visit in September 2005.

The purpose of this assessment was to look at the environmental conditions within the target area and provide this information to the Muskogee City/County Port Authority to assist in its redevelopment planning as well as help meet the All Appropriate Inquiry requirement of the Bona Fide Prospective Purchaser protection against liability under the Comprehensive Environmental Response, Compensation and Liability Act. Sampling and analysis of soil and groundwater were not performed for this assessment.

The assessment assumed, among other things, that the records reviewed were complete and the information provided in the interviews was complete and accurate.

Owing to the era in which the businesses and industries at the property were developed, lead-based paint, asbestos-containing materials, and light fixtures containing polychlorinated biphenyls (PCB) may be present in the building materials. Determination and characterization of these materials was beyond the scope of this assessment.

Recognized Environmental Conditions (REC) found in the assessment include:

- Groundwater contamination on the adjoining property to the north with trichloroethene, 1,1,1-trichloroethane and 1,1-dichloroethene is considered a REC. The extent of affected groundwater has not been determined.
- Groundwater contamination with total arsenic, cadmium and lead, and total alpha activity and total Radium 226 plus Radium 228 activity is considered a REC.

Data gaps exist in the assessment. These gaps could be filled by additional research or by limited Phase II environmental assessments of the specific properties where RECs were identified. Any demolition and environmental assessment and cleanup in this area should be coordinated with the DEQ due to previous decommissioning activities by Fansteel and FMRI.

2.0 INTRODUCTION

The State of Oklahoma Department of Environmental Quality (DEQ) under a Brownfield Assistance Agreement (No. VC98677601) (EPA, 2001) with the U.S. Environmental Protection Agency (EPA) conducted a Targeted Brownfield Assessment (TBA) of the Southern Parcel of the Northwest Area of the FMRI (formerly Fansteel Metals) facility in Muskogee, Oklahoma at the request of the Muskogee City-County Port Authority (Muskogee City/County Port Authority, 2003).

Fansteel Metals operated the property under Nuclear Regulatory Commission (NRC) License No. SMB-911 for the possession of source materials, because uranium and thorium compounds contained in the ore materials and slag (from tin extraction) Fansteel used as feedstock accumulated in the residues left behind after Fansteel extracted the extraction of tantalum and columbium (a/k/a niobium) metal, resulting in over 10,000 tons of low-level radioactive material. License Condition 9 of the NRC License released the Northwest Area of the property for unrestricted use. The Port Authority has already acquired the Northern Parcel of the Northwest Area, and has the right of first refusal on the remainder of the Northwest Property Area and the East Plant Area.

This TBA concerns the Southern Parcel of the Northwest Area. The Port Authority has expressed interest in acquiring this parcel, and has also expressed interest in acquiring some or all of the East Plant Area, possibly subdivided into four or more additional parcels when they are released from the NRC License and become available.

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 Muskogee City/County Port Authority (“the Port Authority”) to help meet the All Appropriate Inquiry requirement of the Bona Fide Prospective Purchaser protection against liability under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA, better known as Superfund – U.S. Congress, Public Law 96-510, 1980), as amended by the Small Business Relief and Brownfields Revitalization Act of 2002 (U.S. Congress, Public Law 107-118, 2002). 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.

The Port of Muskogee lies immediately north of the FMRI site. Constrained to the east and north by the Arkansas River, and to the west by State Highway 165 (Muskogee Turnpike) the Port Authority has demonstrated interest in expanding to the south, onto the FMRI property as it becomes available. The DEQ is providing technical assistance by evaluating the environmental condition of the property prior to the Port purchasing the necessary properties. Funding for this assessment has been provided by the U.S. Environmental Protection Agency (EPA).

2.2 Detailed Scope-of-Services

The DEQ examined the current use of the property, and then identified the historical uses to determine if recognized environmental conditions exist. The DEQ examined historical documents, governmental databases, deed records, aerial photographs, DEQ environmental files, and Sanborn Fire Insurance Maps, conducted interviews with owner and operator representatives, and conducted 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

The Property is located in unincorporated Muskogee County, and city zoning therefore does not apply. A review of county land records turned up no zoning instruments.

The Northern Parcel of the Northwest Area is not included in this assessment because it has already been transferred to the Port Authority. The portion of the FMRI property still subject to the NRC License is not included in this assessment because it is unlikely to become available for sale and redevelopment for several years, and would require separate assessment within the six to twelve months prior to sale.

Due to the age of the buildings, they may contain asbestos, lead and/or mercury paint, mercury thermostats, mercury vapor lights, and PCB containing fluorescent light ballast but analysis for these constituents is outside the scope of this assessment.

A radiation survey has been performed on the buildings and grounds of the Northwest Area (Earth Sciences, 1993 and Earth Sciences, 1995), and approved by the NRC. The survey report noted the survey of the grounds was “seriously complicated by the presence of large quantities of radioactive ore processing residues in the nearby Pond No. 3 in the East Plant Area.” The gamma ray “shine effect from Pond No. 3” is likely to persist until the ore residues are removed as part of the Decommissioning Plan for the East Plant Area. Currently, most of the residues from Pond No. 3 have been dried, placed in Super Sacks and removed to staging areas in the East Plant Area. FMRI began shipping the first Super Sacks of dried residues to International Uranium Corporation in November 2006, and has stated shipments will be complete by approximately July 2007 (NRC, 2006).

The railroad spur which serves the FMRI facility is not included in the Property for the purposes of this assessment.

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 redevelopment. The ASTM Phase I Environmental Site Assessment E 1527 – 05 (ASTM, 2005) is the minimum standard for environmental due diligence in the commercial real estate industry and is 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. 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 residents in the community, information provided by FMRI and the Muskogee City/County Port Authority and observations of the area and specific sites. 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 soil, rock, groundwater, surface water, or air.

Determination and characterization of the presence of hazardous building materials once commonly used is beyond the scope of this assessment.

2.5 *Special Terms and Conditions*

This assessment report has been prepared for the Muskogee City/County Port Authority by the DEQ using U.S. Environmental Protection Agency (EPA) funding. A copy of 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 DESCRIPTION*

3.1 *Location and Legal Description*

The Property is a portion of the Northwest Property Area of the FMRI Site, retained by FMRI, which lies south of the parcel conveyed in 1999 to the Muskogee City/County Port Authority (North Parcel). The property is located in the NE/4 of the SE/4 and the SE/4 of the SE/4 the NE/4, both in Section 17, Township 15 North, Range 19 East of the Indian Base and Meridian, Muskogee County, Oklahoma.

Approximate property lines, showing generally how the two parcels fit together, are sketched in Figures 1 and 2 in Appendix A.

A full legal description of the property is not available, but a map and legal description for the Northwest Property Area of the FMRI Site (Figure 2, Dwg. No. 0111210 from Earth Sciences Consultants, 1995) and a copy of the deed for the parcel already conveyed (the North Parcel) to the Muskogee City/County Port Authority are provided in Appendix E. The North Parcel excludes the easement for the railroad right-of-way and a 45-foot wide strip along the easternmost edge of the Northwest Property Area.

3.2 *Site and Vicinity General Characteristics*

Environmental Setting

The FMRI site is immediately south of the Port of Muskogee, in the northeastern part of Oklahoma. It is located on the west bank of the Webbers Fall Reservoir on the Arkansas River, at approximately Navigation Mile 395, approximately a mile downstream of the mouth of the Neosho River, two miles downstream of the mouth of the Verdigris River, and approximately 26 miles upstream of the Webbers Falls Lock and Dam. The general topography of the area, based on topographic maps by the U.S. Geological Survey (USGS) is shown in Figure 1 (USGS, 1974).

Hydrogeology

The Northwest Property sits on the Quaternary alluvium associated with the Arkansas River. According to Marcher (1969) bedrock below the alluvium is Pennsylvanian Boggy Formation, which generally consists of shale, sandstone, and coal. Logs of borings and monitor wells installed by Fansteel, Inc. (Earth Science Consultants, 1995) show the alluvium in the Southern Parcel of the Northwest Area to consist predominantly of silty or sandy clays, with occasional beds or lenses of sand, mostly just above the top of bedrock, identified as the McCurtain Shale. Borings at the site showed bedrock to be predominantly light gray to dark gray shale and silty shale, with occasional zones of sandy shale, and thin layers of coal.

Groundwater flow in the alluvium is typically through sandy layers at the base, and is generally eastward toward the Arkansas River, although a gradient of 0.002 ft/ft to the southwest across the southern parcel of the Northwest Property Area was noted in a Shallow Groundwater Contour Map prepared in October 2002 (Earth Sciences Consultants, Figure 3-7, 2003).

In the McCurtain Shale, permeability is generally low and groundwater movement depends on secondary (joints and fractures) porosity rather than primary (intergranular) porosity (Earth Sciences, 1993). A potentiometric surface map prepared for the bedrock (Earth Sciences Consultants, Figure 3-8, 2003) shows a gradient of 0.0045 ft/ft to the northwest. Following approval of a request to the Oklahoma Department of Health by Fansteel in 1994, for DEQ concurrence with Fansteel's request for permission from the NRC to remove the bedrock wells, they are now plugged and abandoned.

On the eastern side of the NRC-licensed area east of the Northwest Property Area, an interceptor trench was installed between 2002 and 2003 to capture groundwater affected by operation of the various ponds and settling basins before it can reach the Arkansas River. Recent unpublished potentiometric surface maps, prepared by the DEQ from water levels provided in Self-Monitoring Reports submitted to the DEQ Water Quality Division, show eastward gradients in the alluvium in the Northwest Property Area of approximately 0.004 ft/ft, toward the interceptor trench.

Water Wells

A search of Oklahoma Water Resources Board (OWRB) database of Multi-Purpose Well Completion & Plugging Reports filed since 1988 (monitor wells) or 1982 (other wells) showed seventeen registered wells within a mile of the Northwest Property area, including:

- in the NW/4 of the NE/4 of the SE/4 of Section 17, East of Highway 165, two groundwater test holes (92215 and 92254) installed for Zapata Industries, Inc.,
- in the SE/4 of the SW/4 of the SW/4 of Section 16, one monitoring well (74117) installed in 2002 for Fansteel, Inc.,
- in the NE/4 of the SW/4 of the SW/4 of Section 16, one monitoring well (74116) installed in 2002 for Fansteel, Inc.,
- in the NW/4 of the NE/4 of the SE/4 of Section 17, West of Highway 165, two groundwater test holes (92216 and 92217) and one monitoring well (92226) installed for Zapata Industries, Inc.,
- in the SE/4 of the NE/4 of the SW/4 of Section 17, four monitoring wells (94602, 94603, 97682, and 97683) for Indian Capital Technology Center,
- across the Arkansas River, in the SE/4 of the NE/4 of the NW/4 of Section 21, one domestic well (92281) belonging to the Port of Muskogee, and
- across the Arkansas River, in the SE/4 of the NW/4 of Section 21, one industrial well (41363) belonging to Oklahoma Gas & Electric Company

(OG&E). OG&E owns additional wells nearby, but these are more than one mile from the Property.

The approximate locations of the OWRB-registered wells near the property are shown in Appendix A, Figure 4. Note that the listed location of a well is generally the center of the 10-acre quarter-quarter-quarter section listed in the Multi-Purpose Well Completion Report filed by the driller. For registered wells within one mile of the Northwest Property Area, the approximate yield was noted in only one, specifically well #26956, which is located across the Arkansas River from the site, and is owned by Oklahoma Gas and Electric Company. Water rights allocations for two OWRB permitted groundwater supply wells (Permit numbers 19550715, for 50 acre-feet per year and 19490129 for 10 acre-feet per year) are shown within 1 mile of the FMRI property. Both allocations are owned by OG&E, and both are on the east side of the Arkansas River (OWRB, 2006). Both are listed as Active, Industrial water right allocations.

Additional monitoring and observation wells are present on the Northwest Property Area (MW-51S, MW-53S, MW-54S, OW-1 and OW-2) and on the remainder of the FMRI property, as shown in Appendix A, Figure 3 (From Figure 4-1 in Earth Sciences Consultants, 2003). Available logs for the borings and monitor wells installed in the Northwest Property Area and Multi-Purpose Well Completion Reports for wells within one mile of the property are provided in Appendix G.

In addition, seven temporary monitoring wells, now plugged and abandoned, were installed in the northern parcel of the Northwest Property Area in September and December 2006 for the Port of Muskogee.

Floodplains

According to Federal Emergency Management Administration (FEMA) flood rate insurance maps for Muskogee County, Oklahoma and Incorporated Areas (FEMA, 1991) the Northwest Property Area is outside the 500-year flood plain of the Arkansas River, as is most of the FMRI property. The base flood elevation in the Arkansas River is between 515 and 516 feet above Mean Sea Level (MSL) (FEMA, 1991). In contrast, USGS Topographic maps show the elevation east (and downhill) of the area to be above 530 feet MSL, that is, above the base flood elevation.

Soils

Soil profiles in the Northwest Property Area were determined from county soil survey maps (Townsend, Long, and Gilbertson, 1988) and those applicable to the Property are listed in Table 1 below. Extracts from the Natural Resource Conservation Service website, including a map showing the distribution of the soil profiles over the Property, are given in Appendix E.

Table 1: Soil Profiles applicable to the Property

Map Unit	Unit Name	Description
9	Choteau Loam, 1 to 3 percent Slopes	Typically very dark grayish brown loam to about 10 inches; grayish brown loam subsurface layer to about 24 inches; yellowish brown silty clay loam to about 36 inches; mottled gray, yellowish brown, yellowish red and grayish brown clay loam to about 62 inches; coarsely mottled yellowish brown, gray, yellowish red and grayish brown clay loam below.
24	Kamie fine sandy loam, 1 to 3 percent slopes	Typically dark brown fine sandy loam to about 7 inches; brown fine sandy loam subsurface layer to about 12 inches; sandy clay loam subsoil to 66 inches (red 12-48 inches, light red 48-66 inches).
25	Kamie fine sandy loam, 3 to 5 percent slopes	Typically brown fine sandy loam to about 7 inches; brown fine sandy loam subsurface layer to 11 inches; red sandy clay loam and clay loam subsoil to about 50 inches, and red fine sandy loam below that.
67	Stigler silt loam, 0 to 1 percent slopes	Typically grayish brown silt loam about 15 inches thick; light brownish gray silt loam subsurface layer to about 26 inches; brown silty clay subsoil to about 40 inches and coarsely mottled strong brown, pale brown and grayish brown clay to about 64 inches; gray clay strongly mottled with brown below that.
74	Urban land	No description provided.

Vegetation

Vegetation in the area is mostly grass with scattered trees, except a 600-foot by 800-foot triangular area in the southwest corner, where vegetation is mostly mixed shrubs and trees, some of which are overgrown with vines. No noticeable area of stressed vegetation was observed.

Surface Water

There are no ponds or other small surface water features within the Northwest Property Area, although water may collect in low-lying areas (e.g. just north of the gate to the NRC-licensed area, and near the south fence). The NRC-licensed area includes several water treatment ponds and four outfalls regulated under Oklahoma Pollutant Discharge Elimination System (OPDES) Permit Number OK0001643, ID Number I-51000040.

Aerial photographs from June 1958 to April 1972 show a pond approximately 400 feet north of the Property, approximately north-northwest of the northwest corner

of the main parking lot. Subsequent aerial photographs show only a brush-filled gap in the tree cover, and during the October 2006 site visit the pond was a brush-filled depression with no standing water.

Drainage Paths and Erosion

The topography of the site is shown in the form of two-foot contours are in the site plans provided by FMRI, for example Appendix A, Figures 2 and 3 (Earth Science, 2003). Topographic contours in Appendix A, Figure 3, suggest one drainage path is a drainage swale constructed along the east side of the Northwest Property Area north side of the entrance road, generally draining to a low-lying area approximately 800 feet to 900 feet north of the driveway, and spills across the fence into the NRC-licensed area north of Pond 3. The map shows a shallow depression in the swale, approximately 100 feet to 300 feet long, just north of the facility driveway. Another drainage path drains south across the south fence of the Northwest Property Area, west of the Electron Beam Building. Neither area showed signs of erosion.

Railroad Spurs

A railroad spur extends south from just east of the northeast corner of the Northwest Property Area, and terminates at a loading bay on the east end of the Service Building, with a branch curving to the east to end just south of FMRI's Pond Number 3. The Decommissioning Plan submitted to NRC by FMRI includes loading low-level radioactive process residue (known as Work-in-Progress material or WIP) onto railcars parked on these spurs for transport to an off-site location. As of August 10, 2006, FMRI has a contract with International Uranium Corporation in Utah to accept the WIP, and is in the process of arranging transportation (Burgess, 2006). The railroad spurs are not included in the Property for the purposes of this assessment.

Utilities

- Sewer: According to the Facility Layout, Boring and Well Location Plan provided in Appendix A, Figure 3 (Earth Sciences Consultants, 2003) a sewer main extends from the southeast corner of the Service Building, south-southeast towards a main sewer line running north-south just east of the property line. This figure shows another sewer main line extends southeast from a point in the field approximately 100 feet north of the Service Building, southeast approximately 200 feet to the same north-south sewer line. Neither line has been field-verified. If sewer lines exist to the Sintering Building and Electron Beam Building, they are not shown. According to Burgess (2006) sewage treatment is by the City of Muskogee system.
- Water: The location of water lines is not shown. Water is provided by the City of Muskogee (Burgess, 2006).

- Gas: The Site Layout Plan shown in Figure 3 (Earth Sciences Corporation, Figure 4-1, 2003) shows the approximate location of a gas transmission line near the south property line of the NRC-licensed area, but outside the Northwest Property Area. If gas lines exist to the Service Building, Electron Beam Building or Sintering Building, they are not shown. A search of Muskogee County land records revealed two right-of-way grants to Oklahoma Natural Gas Company, dated March 13, 1968, (Book 1269 Page 668) and July 3, 1968 (Book 1274 Page 084). A buried gas line serving the Port of Muskogee runs along the western edge of the Property (Robinson, 2006). An enclosure with visible valves is present at the southeast corner of Tantalum Drive and N 43rd Street, and may be the connection to the Property.
- Electric Power: Service is from Oklahoma Gas & Electric Company (OG&E). An electrical substation is located in a fenced enclosure between the Electron Beam Building and the Service Building. This is fed from a 69 kilovolt electrical distribution lines along the south end of the Northwest Property Area and served the entire facility. A separate OG&E 128 kilovolt power line crosses the south end of the Northwest Property and the FMRI facility.

Underground features

Review of Oklahoma Corporation Commission records and interviews with FMRI personnel indicate Underground Storage Tanks (UST) are not present on the Property, but are present on the adjacent property to the west of State Highway 165, and a nearly-adjacent property north of the FMRI facility and northeast of the Property. Details concerning the UST are provided in Section 5.0.

An underground vault for access to buried electrical power lines to the FMRI facility is on the south side of the electrical substation. (Burgess, 2006)

Former cooling water reservoirs are present under the west side of the Electron Beam Building and under the Sintering Building. According to Burgess (2006) the cooling water reservoirs were cleaned out in 1989, and the sludge was filtered out and recycled in the Fansteel facility to recover the tantalum and columbium content.

An underground storm drain was observed east of the Electron Beam Building, which apparently receives water via downspouts from the roof of the Electron Beam Building and possibly the Sintering Building. A rectangular grate and what may be a cleanout are visible east of the southeast corner and northeast corner, respectively, of the Electron Beam Building.

Structures

The structures on the South Parcel of the Northwest Area are the Service Building (also known as Building 1 and the Warehouse Building), the Sintering Building

(a/k/a Building 2), the Electron Beam Building (a/k/a Building 3 and the EB Building), a guardhouse (a/k/a Building 4) located approximately 100 feet north of the Service Building and east of the entry gate to the FMRI facility, and Building 6, a small metal storage building near the southeast corner of the Service Building. None of the buildings is residential. The report "Additional Radiation Survey Activities" (Earth Science Consultants, 1995) also lists a Building 5, a metal storage building once used to store laboratory glassware supplies, which was located south of the Service Building and west of Building 6. Building 5 is no longer present at the site.

General characteristics of the various buildings are summarized below. Historical operations are described in Section 3.3, current property use is described in Section 3.4, and observations of grounds and buildings are described in Sections 6.2 and 6.3, respectively.

- **Service Building:** This is a brick building, approximately 270 feet by 120 feet, with loading docks for trucks on the east end of the north side and for railcars on the north end of the east side. It consists of office areas, a warehouse, a machine shop, and former chemical and metallurgical laboratories. Part of the building is currently leased to AI International, a custom manufacturer of metal frame parts (Grindstaff, 2006). The fabricated parts are not painted onsite, but are sent to a powder-coating contractor in Broken Arrow.

"Licensed material", for example, feedstock material such as ore and slag from tin extraction operations overseas, was occasionally managed in the building when the Fansteel facility was still operating. However, this building passed a room-by-room, surface-by-surface radiation survey and, along with the rest of the Northwest Property Area, was released from the NRC license (i.e. released for unrestricted use) per License SMB-911 Amendment No. 6, Condition No. 9, August 20, 1999 (Decommissioning Plan, Earth Sciences Consultants, 2003).

- **Sintering Building:** This is a brick building, approximately 240 feet x 90 feet, in which powders composed of tantalum metal, tantalum hydride or columbium, were milled and classified, then shaped by hydraulic presses into bars rods or other shapes, then fused under vacuum (sintered) to add strength, and then cooled. In addition, a machine shop in the northwest corner of the building was used to machine these shapes under an inert atmosphere or under vacuum. No information was available on additives to the cooling water system or on the possibility of PCBs being present in the hydraulic fluid.

Cooling pumps were observed during the site visit; vacuum pumps were not. According to Burgess (2006) the cooling water reservoirs were drained and cleaned out in 1989 and refilled with city water. The material

removed was run through filter presses, and the solids recycled to recover their tantalum content.

The presence of the cooling water reservoirs and the absence of information concerning additives to the water or releases from the reservoir, are considered data gaps. The lack of information concerning the PCB content of hydraulic fluids used in the hydraulic presses is considered a data gap.

The Sintering Building is now leased by AI International, a metal parts fabricator.

- **Electron Beam Building:** This is a metal building approximately 150 feet x 210 feet. In the Electron Beam Building, large rods of sintered tantalum metal were heated in a vacuum with electron beams, and the melted metal then cooled as ingots. The electrodes were water-cooled, with a reservoir of cooling water in an underground tank under the west side of the building, under removable floor plates. According to the Remediation Assessment Report (1993) no licensed materials were handled in the building. No information was available concerning the use of anti-fouling additives in the cooling water system. According to Burgess (2006) the cooling water reservoirs were drained and cleaned out in 1989 and refilled with city water, and the sludge was recycled through Fansteel's process to recover the tantalum and columbium content.

The presence of the cooling water reservoirs and the absence of information concerning additives to the water or releases from the reservoir, are considered data gaps.

According to the FMRI Operations Manager, the Electron Beam Building is now leased by Global Machine Company, a company that performs Precision Product Machining and Metal Fabrication. The operations at Global Machine Company in the Electron Beam Building were inspected on October 27, 2006.

- **Building 6:** A small metal building (approximately 15 feet by 15 feet according to Earth Sciences, 2003) south of the Service Building is currently leased to AI International. This building was once used for electrical equipment, then as storage for a tractor and mowing equipment.
- **Guard House:** A small (less than 15 feet by 20 feet) brick building north of the facility driveway, opposite the Service Building, is used as the guard house for the FMRI facility.
- **Electrical Power Substation:** An electrical power substation is present in a fenced enclosure (approximately 200 feet x 75 feet) between the

Electron Beam Building and the Service Building. Determination of the PCB status of transformers is beyond the scope of this assessment, and no plates or markings indicating PCB status or age of the equipment were seen from outside the fence.

Above-Ground Storage Tanks

Two skid-mounted boilers, which might be considered above-ground storage tanks (AST) were observed, inside the Sintering Building, where they were being stored prior to sale. These are not considered to be Recognized Environmental Concerns (REC). No other AST were observed on the subject property.

Offsite, at least four AST were observed within the NRC-licensed property, east (and downhill) of the Chem-A and Chem-C Building, and therefore at least 800 feet east of the Northwest Property Area. One was identified as containing anhydrous ammonia; other chemicals used by Fansteel, and therefore possibly stored in tanks in the past, were Methyl isobutyl Ketone (4-methyl-2-pentanone, or MIBK), aqueous hydrofluoric acid, nitric acid, and sulphuric acid. According to Burgess (2006) these chemicals are no longer stored at the FMRI facility or on the Property. Additional AST were observed just west of the Chem A Building, and at least 600 feet east of the Northwest Property.

North of the FMRI property, and at least 500 feet east of the Northwest Property Area, at least eight AST are visible on property listed by the Port Authority as Koch Pavement Solutions.

All these AST are hydraulically downgradient of the site, and are not considered to be REC.

Landfills, Dumping, Disturbed Soil

Based on site visits, examination of historical aerial photographs and interviews, landfills were not noted in the site. Aerial photos indicate disturbed ground just south of the driveway intersection south of the west end of the Service Building and in the field north of the east end of the Service Building in 1958; possible bushes or piles of material were visible south of the driveway south of the southwest corner of the Service Building in 1964 and 1979. A possible disturbed area in the center of the field north of the Service Building was visible in 1981, appeared smaller in 1984, and appeared still smaller in 1991.

Approximately 200 feet south of the site, the Borrow Pit Area west of Pond 9 was first visible in the 1979 aerial photographs, with signs of possible activity visible through to the 1991 photographs. This area is within the NRC-licensed facility and was addressed in the 1993 Remediation Assessment Report, which determined:

“Based on the results of the soil sampling alone, the radioactivity detected in this area might be attributed to a random accumulation of fugitive material or to a naturally occurring concentration of uranium or thorium

bearing minerals. However, as discussed in Sections 4.2.3.1 and 4.2.4.1 following, groundwater and surface water in this area of the property also indicate elevated concentrations of radioactivity. This combination of indicators suggests that radioactive materials may have impacted this area at some time in the past.”

This area is topographically and hydraulically downgradient from the subject Property, and therefore is not considered a Recognized Environmental Condition.

Impoundments

Except for the ponds visible in the facility to the east, no impoundments were observed on the site.

East of the site is Pond 3, which contains the sludge residue, left over from the extraction of columbium and tantalum compounds from the ore and slag feedstock by Fansteel. According to the Decommissioning Plan, on a dry weight basis the sludge typically contains approximately 0.3% uranium and 0.6% thorium (Earth Sciences Consultants, 2003) and the resulting gamma ray “shine” from the pond contents was sufficient that special survey techniques were employed in a 1995 survey to differentiate gamma ray “shine” intensity from any gamma ray intensity from the soil from the eastern 75 feet of the field north of the Service Building and driveway. Until the contents of this pond are properly removed or the pond is properly closed in accordance with a NRC-approved Decommissioning Plan, the presence of this pond is considered a Recognized Environmental Condition. According to Burgess (2006) FMRI has a new or renewed contract for offsite recycling of the WIP at a facility in Utah, and is currently making arrangements to have it transported there. Much of the sludge has been excavated and dried, and has been stockpiled south of Pond 3 in preparation for shipment.

Southeast of the site, former Pond 5 and Ponds 6 though 9 are used to treat process wastewater for disposal through an OPDES-permitted outfall.

Air Emissions, Wastewater Discharge

No strong odors indicating air emissions were noted during site visits, and no wastewater discharges were observed. FMRI operates air sampling stations to monitor airborne radionuclides from decommissioning activities.

The five outfalls operated by the FMRI facility to the east, in accordance with OPDES Permit No OK0001643 in support of decommissioning activities, are listed below.

Table 2: OPDES-Permitted Outfalls

Permit Number	Facility	Location	Facility Latitude	Facility Longitude	Facility Legal
OK0001643	Fansteel, Inc / FMRI	Outfall 001	N35°46'24”	W95°18'06”	SE-NW-SW Sec 16 T15N R19EIM

Permit Number	Facility	Location	Facility Latitude	Facility Longitude	Facility Legal
OK0001643	Fansteel, Inc / FMRI	Outfall 002	N35°46'27"	W95°18'06"	SE-NW-SW Sec 16 T15N R19EIM
OK0001643	Fansteel, Inc / FMRI	Outfall 003	N35°46'36"	W95°18'09"	NE-NW-SW Sec 16 T15N R19EIM
OK0001643	Fansteel, Inc / FMRI	Outfall 004	N35°46'24"	W95°18'06"	SE-NW-SW Sec 16 T15N R19EIM
OK0001643	Fansteel, Inc / FMRI	Outfall 005	N35°46'15"	W95°18'15"	SE-SW-SW Sec 16 T15N R19EIM

Industrial Activities

The 1993 Remediation Assessment Report states:

“The Northwest Property Area ... during plant operations, was never utilized for the processing, generation, or disposal of licensed material. This portion of the site was involved with processing the intermediate products (tantalum and columbium powder) which were free of licensed material. The intermediate products were pressed and sintered into shapes in the Sintering Building. These sintered products were either sold as is or further refined prior to sale by electron beam melting in the Electron Beam Building. The Northwest Property Area has been assessed for both chemical and radiological parameters. Additionally, a radiation decommissioning survey was performed on this portion of the property. The results of these activities have been documented in the Radiation Survey and Remediation Assessment Northwest Property Area report dated July 1993.”

Currently part of the Service Building and Sintering Building are leased by AI International for metal fabrication. According to the president of the company, cleaning and painting/coating of the fabricated parts is done offsite. The operations at the Service Building were observed, but during the September 2005 visit the Sintering Building was used by FMRI to store equipment and chemicals for use or sale in support of remediation activities by FMRI, and any removal of stored chemicals and any subsequent operations there had not yet occurred.

At the time of the September 2005 site visit, the Electron Beam Building was not leased, but was used to store equipment and furniture, and was mostly empty. Currently the Electron Beam Building is leased by Global Machine Company, which performs precision product machining and metal fabrication in steel, stainless steel and aluminum.

Monitoring Wells

Three monitoring wells, MW-51S, MW-52S and MW-53S and two observation wells, MW-OW1 and MW-OW2 near MW-52S are present on the site, based on site maps on file with the Nuclear Regulatory Commission. A fourth monitoring well, MW-151D, has been plugged and abandoned. All are owned by FMRI.

Monitoring Wells in Neighboring Areas: Numerous monitoring wells are present on the FMRI facility, and were installed in support of the 1993 remedial assessment performed to meet NRC requirements. Locations of the wells and soil borings are shown in Figure 3.

Outside the FMRI facility and Northwest Property Area, the 17 wells registered with OWRB within a mile of the site are listed below; four are described as monitoring wells. Approximate locations of these wells are shown in Figure 4.

In addition, seven temporary monitoring wells were installed in September and December 2006 in the parcel of the Northwest Property Area already transferred to the Port Authority. These have subsequently been plugged and abandoned. Groundwater contamination with trichloroethene was observed in five of these wells is discussed later and is summarized in Table 5.

Table 3: OWRB-Registered Wells

OWNER NAME	QTRS	SEC TWP RGE	DPC NO	USE	WELL TYPE	Address/City/State OR Finding Location (from OWRB, 2005)
Zapata Industries	NW-NE-SE	17-15N-19E	92215	Water Location	Groundwater Test Hole	4400 Don Cayo Dr., Muskogee
Zapata Industries	NW-NE-SE	17-15N-19E	92216	Water Location	Groundwater Test Hole	4400 Don Cayo Dr., Muskogee
Zapata Industries	NW-NE-SE	17-15N-19E	92217	Water Location	Groundwater Test Hole	4400 Don Cayo Dr., Muskogee
Zapata Industries	NW-NE-SE	17-15N-19E	92226	Water Location	Groundwater Test Hole (Plugged)	4400 Don Cayo Dr., Muskogee
Zapata Industries	NW-NE-SE	17-15N-19E	92254	Water Location	Groundwater Test Hole	4400 Don Cayo Dr., Muskogee
Tim King	NE-SW-SW	8-15N-19E	99530	Heat Exchange	Geothermal or Heat pump well	3704 N Country Club Road, Muskogee
Oklahoma Gas & Electric Co.	SW-SE-NE	21-15N-19E	26956	Industrial	Groundwater Well	4 miles east of Muskogee
Oklahoma Gas & Electric Co.	SE-NE-SE	08-15N-19E	64767	Soil Evaluation	Geotechnical Boring	[None given]
Oklahoma Gas & Electric Co.	SE-NW	21-15N-19E	41363	Industrial	Groundwater Well	4 miles east of Muskogee
Economy Plumbing Heating & Air	SE-SE-NW	17-15N-19E	96510	Domestic	Groundwater Well	3816 Putter Place, Muskogee
Indian Capital Technology Center	SE-NE-SW	17-15N-19E	94602	Site Assessment	Monitoring Well	2403 North 41 st East, Muskogee
Indian Capital Technology Center	SE-NE-SW	17-15N-19E	94603	Site Assessment	Monitoring Well	2403 North 41 st East, Muskogee
Indian Capital Technology Center	SE-NE-SW	17-15N-19E	97682	Site Assessment	Monitoring Well	2403 North 41 st East, Muskogee

OWNER NAME	QTRS	SEC TWP RGE	DPC NO	USE	WELL TYPE	Address/City/State OR Finding Location (from OWRB, 2005)
Indian Capital Technology Center	SE-NE-SW	17-15N-19E	97683	Site Assessment	Monitoring Well	2403 North 41 st East, Muskogee
Port of Muskogee, c/o Geo Enter	SE-NE-NW	21-15N-19E	92281	Domestic	Groundwater Well	S of Hwy 63, E of Arkansas River, E side of visitors center parking lot
Muskogee City County	NE-NE-SE	17-15N-19E	101607	Site Assessment	Monitoring Well (Plugged)	North of Highway 62 on Highway 165 - 1/4 mile on East side of Highway 165
Muskogee City County	NE-NE-SE	17-15N-19E	101608	Site Assessment	Monitoring Well (Plugged)	North of Highway 62 on Highway 165 - 1/4 mile on East side of Highway 165
Muskogee City County	NE-NE-SE	17-15N-19E	101609	Site Assessment	Monitoring Well (Plugged)	North of Highway 62 on Highway 165 - 1/4 mile on East side of Highway 165

Stained Soils

No stained soils were observed.

Seeps

No seeps were observed during the site visits, and would not be expected within the Northwest Property Area, based on comparison between surface topography and potentiometric surface maps.

Chemical Spills

During the September 2005 site visit, dry chemicals were observed spilled from sacks and drums stored in the Sintering Building, where an ammonia-like odor was observed, and smears of dark gray dust, described as tantalum metal dust, which appeared to have been trapped between furniture and interior walls before the furniture was moved. At the time of the October 27, 2006 site visit, the spilled dry chemicals appeared to have been cleaned up, and all the metal dust smears less than approximately seven feet above the floor had been cleaned up.

The historical presence of spilled dry chemicals is considered a Historical Recognized Environmental Condition (HREC).

Oil and Gas Exploration

A certification filed in 1960 in Muskogee County Land Records by the Oklahoma Corporation Commission stated there was no oil or gas development in Section 17, T15N R19E. The Oklahoma Corporation Commission has records of three wells in the section, approximately one-half mile north of the Property. None is on the Property. Available information from the Corporation Commission,

together with a sketch map showing approximate locations, is shown in Appendix E.

Known Groundwater or Surface Water Contamination

1993-2005: Contamination of groundwater has been reported from the FMRI facility east of the site, and shallow monitoring wells (screened in the alluvium) and deep monitoring wells (screened in bedrock below the alluvium) were installed in 1993 (except as noted) and sampled. Of these, three shallow monitoring wells and one deep monitoring well were installed in the Northwest Property Area. The locations of MW-51S (installed in 1991), MW-151D, MW-53S, and MW-54S, and offsite wells MW-52S (south of the site), and MW-68S (between the site and Pond No. 3 to the east) are shown in Appendix A, Figure 3. Monitoring well MW-151D was subsequently plugged and abandoned.

Groundwater analyses reported in the 1993 Remediation Assessment report included analyses for groundwater from MW-51S, MW-54S and MW-68S, and the deep well MW-151D, in or near the Northwest Property Area. In this series of groundwater samples, most of the wells on or near the Property were analyzed for water-quality parameters and total metals; one well on the Property (MW-51S) was also analyzed for Volatile Organic Compounds (VOC) and Semi-volatile Organic Compounds (SVOC), and one well just off the Property (MW-52S) was also analyzed for isotopes of uranium, radium, potassium and thorium. In addition, FMRI has sampled and analyzed selected wells for a limited suite of parameters on a quarterly or semi-annual basis from 1996 through 2006, and submitted these to the DEQ in the form of Self-Monitoring Reports. For the wells MW-51S, MW-53S, and MW-54S, besides depth to groundwater the reported analyses were limited to ammonia (as N), fluoride, pH, Total Dissolved Solids. For MW-68, results were reported for depth to groundwater, fluoride, total arsenic, total cadmium, total chromium, total lead, pH and total dissolved solids (TDS).

For each parameter, the maximum value reported among the wells on or near the Property has been tabulated and compared to applicable Drinking Water Standards (MCL), Medium-Specific Screening Levels (MSSL) issued by EPA Region 6, or Secondary Drinking Water Standards (SMCL) in Table 4. All radiological results were included regardless of whether a screening level exists.

Table 4: Groundwater Screening Levels Exceeded by Sample Concentration or Laboratory Detection Limit in Fansteel or FMRI Samples, 1993-2006

Parameter	Units	Max Value	Location of Max ¹	Screening Level	Type of Screening Level ³	Detection Limit	Event Year ²
Total Analyses:							
Nitrate-Nitrite	(mg/l NO ₃ -N)	41	MW-52S	10	MCL		1993
Sulfate	mg/l	2000	MW-52S	250	SMCL		1993

Parameter	Units	Max Value	Location of Max ¹	Screening Level	Type of Screening Level ³	Detection Limit	Event Year ²
Gross Alpha	pCi/l	79	MW-52S	15	MCL		1993
Gross Beta	pCi/l	160	MW-52S		Rad		1993
Isotopes:							
Uranium-233	pCi/l	0.7			Rad		1993
Uranium-238	pCi/l	0.9			Rad		1993
Radium 226	pCi/l	4.1	MW-52S	5	MCL		1993
Radium 228	pCi/l	5.9	MW-52S	5	MCL		1993
Potassium.40	pCi/l	2			Rad		1993
Thorium-228	pCi/l	6.4			Rad		1993
Thorium-230	pCi/l	4			Rad		1993
Thorium-232	pCi/l	5.6			Rad		1993
Total Metals:							
Aluminum, Total	ug/l	5650	MW-52S	200	SMCL		1993
Arsenic, Total	ug/l	120	MW-68S	20	MCL		2003
Cadmium, Total	ug/l	18.1	MW-51S	5	MCL		1993
Iron, Total	ug/l	9180	MW-52S	300	SMCL		1993
Manganese, Total	ug/l	619	MW-52S	50	SMCL		1993
Lead, Total	ug/l	140	MW-68S	15	MCL		2005
Antimony, Total	ug/l		MW-53S	6	MCL	29.7	1993
Thallium, Total	ug/l		MW-51S	2	MCL	4	1993
Volatile Organics:							
Benzene	ug/l		MW-51S	5	MCL	10	1993
Bromodichloromethane	ug/l		MW-51S	1.8E-1	MSSL	10	1993
Bromoform	ug/l		MW-51S	8.5E+0	MSSL	10	1993
Bromomethane	ug/l		MW-51S	8.7E+0	MSSL	10	1993
Carbon Tetrachloride	ug/l		MW-51S	5	MCL	10	1993
Dibromochloromethane	ug/l		MW-51S	1.3E-1	MSSL	10	1993
Chloroethane	ug/l		MW-51S	3.9E+0	MSSL	10	1993
Chloromethane	ug/l		MW-51S	2.1E+0	MSSL	10	1993
Chloroform	ug/l		MW-51S	1.7E-1	MSSL	10	1993
1,2-Dichloroethane	ug/l		MW-51S	5	MCL	10	1993
1,1-Dichloroethene	ug/l		MW-51S	7	MCL	10	1993
1,2-Dichloropropane	ug/l		MW-51S	5	MCL	10	1993
Cis-1,3-Dichloropropene	ug/l		MW-51S	4.0E-1	MSSL	10	1993
Trans-1,3-Dichloropropene	ug/l		MW-51S	4.0E-1	MSSL	10	1993
Methylene Chloride	ug/l		MW-51S	4.3E+0	MSSL	10	1993
1,1,2,2-Tetrachloroethane	ug/l		MW-51S	5.5E-2	MSSL	10	1993
Tetrachloroethene	ug/l		MW-51S	5	MCL	10	1993
1,1,2-Trichloroethane	ug/l		MW-51S	5	MCL	10	1993
Trichloroethene	ug/l		MW-51S	5	MCL	10	1993
Vinyl Chloride	ug/l		MW-51S	2	MCL	10	1993
Semivolatile Organics:							
Bis(2-chloroethyl)ether	ug/l		MW-51S	9.8E-3	MSSL	10	1993
Bis(2-chloroisopropyl)ether	ug/l		MW-51S	2.7E-1	MSSL	10	1993
Bis(2-ethylhexyl)phthalate	ug/l		MW-51S	6	MCL	10	1993

Parameter	Units	Max Value	Location of Max ¹	Screening Level	Type of Screening Level ³	Detection Limit	Event Year ²
Benzo(a)pyrene	ug/l		<i>MW-51S</i>	0.2	MCL	10	1993
Benzo(a)anthracene	ug/l		<i>MW-51S</i>	9.2E-2	MSSL	10	1993
Benzo(b)fluoranthene	ug/l		<i>MW-51S</i>	9.2E-2	MSSL	10	1993
Benzo(k)fluoranthene	ug/l		<i>MW-51S</i>	9.2E-1	MSSL	10	1993
Carbazole	ug/l		<i>MW-51S</i>	3.4E+0	MSSL	10	1993
Chrysene	ug/l		<i>MW-51S</i>	9.2E+0	MSSL	10	1993
Dibenzo(a,h)anthracene	ug/l		<i>MW-51S</i>	9.2E-3	MSSL	10	1993
3,3-Dichlorobenzidine	ug/l		<i>MW-51S</i>	1.5E-1	MSSL	10	1993
Hexachlorobenzene	ug/l		<i>MW-51S</i>	1	MCL	10	1993
Hexachlorobutadiene	ug/l		<i>MW-51S</i>	8.6E-1	MSSL	10	1993
Hexachloroethane	ug/l		<i>MW-51S</i>	4.8E+0	MSSL	10	1993
Indeno(1,2,3-c,d)pyrene	ug/l		<i>MW-51S</i>	9.2E-2	MSSL	10	1993
N-Nitrosodi-n-propylamine	ug/l		<i>MW-51S</i>	9.6E-3	MSSL	10	1993
Naphthalene	ug/l		<i>MW-51S</i>	6.2E+0	MSSL	10	1993
Nitrobenzene	ug/l		<i>MW-51S</i>	3.4E+0	MSSL	10	1993
Pentachlorophenol	ug/l		<i>MW-51S</i>	1	MCL	50	1993
2,4,6-Trichlorophenol	ug/l		<i>MW-51S</i>	6.1E+0	MSSL	10	1993

While VOC and SVOC screening levels were not exceeded, the detection limit for some compounds exceeded the screening level. Metals present in excess of the MCLs included Arsenic, Cadmium, and Lead, and metals for which the detection limit exceeded the MCLs included Antimony and Thallium. Inorganic species present in excess of the MCLs include Nitrate-Nitrite (assuming the less toxic species, nitrate, was not present), Gross Alpha activity and Total Radium-226 plus Radium 228 activity.

Groundwater contamination with total arsenic, cadmium and lead, and total alpha activity and total Radium 226 plus Radium 228 activity is considered a Recognized Environmental Condition (REC).

2006: In the course of a Phase II Environmental Site Assessment of the Northern Parcel of the Northwest Property Area, performed for the Port Authority, the DEQ installed three temporary monitor wells in September 2006. Organic compounds were observed in one of the temporary monitoring wells, MPA-2, located approximately 100 feet north of the Property, and approximately 400 feet west of the railroad spur. Four additional temporary monitoring wells were installed and sampled in December 2006, and organic compounds were observed in all four groundwater samples. The compounds detected are listed in Table 5. The locations of the temporary wells are shown in Figure 6.

Soil collected from the boring for MPA-2 (at 30.5 ft. bgs) contained Trichloroethene (aka Trichloroethylene or TCE) at a concentration of 3000

microgram/kilogram ($\mu\text{g}/\text{kg}$) also referred to as parts per billion (ppb). A soil sample collected at 27 ft bgs in the same well showed Trichlorethene at a concentration of 48 $\mu\text{g}/\text{kg}$. Table 5 lists the concentrations of contaminants in a groundwater sample collected from this well.

Table 5: Groundwater Screening Levels Exceeded by Sample Concentration in Temporary Monitor Wells, September 7, 2006 and December 12, 2006

Parameter	Units	Location	Value	Screening Level	Type of Screening Level
1,1-Dichloroethene	$\mu\text{g}/\text{L}$	MPA-2	1500	7.0	MCL
Cis-1,2-Dichloroethene	$\mu\text{g}/\text{L}$	MPA-2	93	70	MCL
1,1,1-Trichloroethane	$\mu\text{g}/\text{L}$	MPA-2	320	200	MCL
Tetrachloroethene	$\mu\text{g}/\text{L}$	MPA-2	69	5.0	MCL
Trichloroethene	$\mu\text{g}/\text{L}$	MPA-2	37,000	5.0	MCL
Arsenic	$\mu\text{g}/\text{L}$	MPA-1	74	10	MCL
Arsenic	$\mu\text{g}/\text{L}$	MPA-2	154	10	MCL
Arsenic	$\mu\text{g}/\text{L}$	MPA-3	68	10	MCL
Barium	$\mu\text{g}/\text{L}$	MPA-3	2510	2000	MCL
Beryllium	$\mu\text{g}/\text{L}$	MPA-1	15	4	MCL
Beryllium	$\mu\text{g}/\text{L}$	MPA-2	15	4	MCL
Beryllium	$\mu\text{g}/\text{L}$	MPA-3	17	4	MCL
Chromium	$\mu\text{g}/\text{L}$	MPA-1	686	100	MCL
Chromium	$\mu\text{g}/\text{L}$	MPA-2	422	100	MCL
Chromium	$\mu\text{g}/\text{L}$	MPA-1	685	100	MCL
Lead	$\mu\text{g}/\text{L}$	MPA-1	176	15	Action Level
Lead	$\mu\text{g}/\text{L}$	MPA-2	142	15	Action Level
Lead	$\mu\text{g}/\text{L}$	MPA-3	311	15	Action Level
Antimony	$\mu\text{g}/\text{L}$	MPA-1	142	6	MCL
Antimony	$\mu\text{g}/\text{L}$	MPA-1	140	6	MCL
Antimony	$\mu\text{g}/\text{L}$	MPA-1	103	6	MCL
Thallium	$\mu\text{g}/\text{L}$	MPA-1	75	2	MCL
Trichloroethene	$\mu\text{g}/\text{L}$	MPA-2N	12,000	5.0	MCL
1,1-Dichloroethene	$\mu\text{g}/\text{L}$	MPA-2NA	250	7.0	MCL
1,1,1-Trichloroethane	$\mu\text{g}/\text{L}$	MPA-2NA	62	200	MCL
Trichloroethene	$\mu\text{g}/\text{L}$	MPA-2NA	6500	5.0	MCL
1,1-Dichloroethene	$\mu\text{g}/\text{L}$	MPA-4N*	290	7.0	MCL
1,1,1-Trichloroethane	$\mu\text{g}/\text{L}$	MPA-4N*	71	200	MCL
Trichloroethene	$\mu\text{g}/\text{L}$	MPA-4N*	6900	5.0	MCL
Trichloroethene	$\mu\text{g}/\text{L}$	MPA-2E	610	5.0	MCL
Trichloroethene	$\mu\text{g}/\text{L}$	MPA-2W	83	5.0	MCL

Parameter	Units	Location	Value	Screening Level	Type of Screening Level
* MPA-4N is a duplicate of MPA-2NA					

The extent of the affected groundwater has not yet been delineated. Groundwater flow in the area is believed to be eastward, towards a French drain and an interceptor trench operated by FMRI. The presence of the affected groundwater and soil adjacent to the Property is a Recognized Environmental Condition (REC).

Farm Wastes

The land use prior to purchase by the Muskogee Industrial Foundation in 1956-57 is not known, but is assumed to be agricultural. No information concerning farm wastes was found.

Known Pesticide Misapplication

No information was found regarding misapplication of pesticides in this area.

Discharges and Runoff from Adjacent Property Affecting the Site

The property is down slope from the embankment to State Highway 165 to the west, and a tract already owned by the Muskogee City-County Port Authority on the north. The presence of contaminated groundwater on the adjacent property to the north, based on groundwater samples collected from a temporary monitor well in September 2006, has already been discussed. The properties to the south and east are down slope.

East of the site, a surface release of the supernatant from Pond 3 occurred in June 1989, resulting in released fluid traveling along the natural drainage along the west and north sides of Pond 3. This drainage was eventually contained using dikes, and removed for treatment in the plant's wastewater system (Earth Sciences Consultants, 1993). The drainage north of Pond 3 is down-slope and approximately 10 feet lower than the eastern edge of the site. This is not considered an REC.

Other Known or Suspected Environmental Concerns on the Site

The presence or absence of radioactive materials on the grounds north of the Service Building and Sintering Building has been determined by historical information, limited soil analyses and a limited radiological survey complicated by the gamma ray "shine" emanating from the contents of Pond 3 to the east. This work satisfied the criteria set by the Nuclear Regulatory Commission to release the Northwest Property for unrestricted use.

If small quantities of radioactive material were present on the site, they could have gone undetected, however. A radiological survey of the Northwest Property Area, performed after FMRI removes the contents of Pond 3 and ships them off-site, could confirm the presence or absence of radioactive materials on the property. This is considered a data gap.

Historical Recognized Environmental Conditions on the Site

- Buildings: Licensed material was stored or used in specific rooms (114, 115, 120, and 123) of the Service Building. Following room-by-room gridding and scanning for radioactivity, vigorous cleaning of areas identified as impacted was performed. The building was resurveyed, and none of the survey locations exhibited radioactivity in excess of the criteria for release for unrestricted use for affected areas (Earth Sciences, 1995).

Similarly, the other rooms, the exterior walls, and the roof of the Service Building, and the rooms, exterior walls and roof of each of the other buildings in the Northwest Property Area, were gridded, scanned for radioactivity, and identified as not impacted.

The historical presence of licensed material in specific rooms in the Service Building is considered an HREC.

- Release from Pond 3 in June 1989: The release of supernatant from Pond 3 to the ground surface to the west and north is considered an HREC. Immediate cleanup activity and subsequent characterization revealed no radiological impact, and groundwater samples from Monitoring Well MW-68S nearby are collected and analyzed periodically.
- Tornado Damage: The release during a tornado in 1999, of moist low-level radioactive material excavated from Pond 5 in 1993 and stored in fabric Super Sacks in the Sodium Reduction Building, is considered an HREC. According to the Decommissioning Report (Earth Sciences Consultants, 2003) the material contained an average of 21 pCi/g uranium-235 and 6 pCi/g thorium-232. Approximately 500 pounds of the material were released to the ground surface within a 10-foot diameter area before being recovered and bagged.
- Spilled chemicals including ammonium bifluoride, observed in September 2005 in the Sintering Building, appear to have been cleaned up to prepare the building for use by AI International, and were gone at the time of the October 2006 site visit.

Pipelines

The Site Plan in Appendix A, Figure 3 shows a gas pipeline (Oklahoma Natural Gas Co.) running along the south property line of the FMRI facility offsite. The Site Plan does not show the western edge of the Northwest Property Area. However, a small fenced area containing what appear to be gas valves and lines was observed at the southeast corner of Tantalum Place and N 43rd Street East during the September 2005 site visit. According to Robinson (2006) a gas line running along N 43rd Street serves FMRI, the Property and the Port of Muskogee. The lack of maps showing the pipeline in this area is considered a data gap.

The Site Plan also shows city sewer mains serving the Service Building and a location near the Guardhouse, but does not show lines serving the Electron Beam Building or Sintering Building.

A storm drain, which conducts water southwards from the roofs of the Electron Beam Building and possibly the Sintering Building and Service Building, was observed during the October 2006 site visit. This is not considered an REC.

Transformers/PCB Equipment

Transformers and other equipment are present in the electrical substation located between the Service Building and the Electron Beam Building. Determination of the PCB status of the transformers is beyond the scope of this assessment. No plates or markings indicating PCB status or age of the equipment were seen from outside the fence enclosing the substation. This is considered a data gap.

3.3 Operational History

According to Earth Sciences Consultants (1993) the Fansteel (now FMRI) facility was constructed in 1956 on alluvial soils and unconsolidated alluvium approximately 20 to 30 feet thick which are underlain by shale bedrock. Prior to the construction of the facility, the site was undeveloped. Fansteel's Muskogee plant produced tantalum and columbium metals. Extraction of raw tantalum and columbium occurred on the portion of the facility east of the Property; further purification of the tantalum and columbium was done in the Sintering Building and later in the Electron Beam Building on the Property. Tantalum is used primarily in the electrical/electronics industry in the production of tantalum capacitors. Columbium is marketed for use in heat-resistant alloys. The Fansteel processing facility had been in operation for approximately 33 years until operations ceased in 1990. The area had not been developed for any use prior to construction of the Fansteel facility and no previous structures existed.

Operations on the Property:

The Northwest Property Area which includes the Property and a parcel to the north previously conveyed to the Port Authority (Appendix A, Figure 2) was

never utilized for the processing, generation, or disposal of licensed (that is, radioactive) material during plant operations. This portion of the site was involved with processing the intermediate products (tantalum and columbium powder) which were free of licensed material. The intermediate products were pressed and sintered into shapes in the Sintering Building. These sintered products were either sold as is or further refined prior to sale by electron beam melting in the Electron Beam Building. The Northwest Property Area has been assessed for both chemical and radiological parameters. Additionally, a radiation decommissioning survey was performed on this portion of the property. The results of these activities were documented in the Radiation Survey and Remediation Assessment Northwest Property Area report dated July 1993 (Earth Sciences Consultants, 1993).

Additional decommissioning and radiation survey activities were performed in 1995 (Earth Sciences Consultants, 1995) in support of an application to have the Northwest Property Area released from the NRC License. The Northwest Property Area was released from the NRC license (i.e. released for unrestricted use) per License SMB-911 Amendment No. 6, Condition No. 9, August 20, 1999 (Decommissioning Plan, Earth Sciences Consultants, 2003).

The northern portion of the Northwest Property Area was conveyed in June 1999 to the Muskogee City-County Port Authority; the remainder was retained by Fansteel, Inc., and the Service Building, Electron Beam Building and Sintering Building were largely unused.

Service Building: This building consists of office areas, a warehouse, a machine shop, and chemical and metallurgical laboratories. A laboratory for measuring environmental radioactivity consisting of alpha and beta counting equipment was formerly located in this structure. Building No. 1 is part of the original plant construction.

In 2005, AI International leased the Service Building for a metal fabrication shop specializing in steel and aluminum frames for industrial purposes, and custom motorcycle frames. In addition to design activities, operations include welding and computer numerically-controlled (CNC) machining. The fabricated parts are not painted onsite, but are powder-coated offsite. (Grindstaff, 2005, Appendix F).

Sintering Building (Building No. 2): This building formerly contained sintering furnaces, storage areas, offices, and support equipment as well as a machine shop. This building received purified tantalum or columbium powder. Neither powder was radioactive. Processes which occurred in this building involved pressing the powders into shapes specified by Fansteel's customers and sintering the powdered shapes into metal. The sintering furnaces have been sold and removed from the site. Building No. 2 is part of the original plant construction.

At the time of the September 2005 site visit, the Sintering Building was being used to store dry and liquid chemicals, of which some had salvaged for sale and others were intended for use in the decommissioning process. Evidence of spills of dry chemicals was observed during the site visit. Photographs from the site visit are presented in Appendix C.

In 2006, the Sintering Building was leased by AI International for fabrication and storage of steel parts, for example motorcycle frames, frames for construction equipment and conveyors. At the time of the October 2006 site visit, the stored chemicals were no longer present except for some super sacks of spent alumina and Floricel 828. Operations included welding, grinding and parts storage.

Electron Beam Building: This building was constructed 1989, just prior to the termination of plant manufacturing operations, to house an Electron Beam (EB) furnace for the production of high-purity tantalum. Building No. 3 also contained a vacuum arc furnace (VAF) which was used for tantalum refining. These furnaces would receive relatively pure metals and remelt and reshape the material to achieve a higher degree of purity. Raw materials utilized and final products generated in this building were not radioactive.

Guardhouse: A guardhouse lies north of the Service Building and is used by security personnel. No processing activity occurred in this building. (Earth Sciences Consultants, Inc., 2003)

Metal Building (Building 6): South of the Service Building, this metal building was used for electrical equipment, then for storage of a tractor and lawn maintenance equipment. It was leased to AI International in 2005, and houses two air compressors.

Operations on the Fansteel/FMRI Facility east of the Property:

The Fansteel/FMRI Facility, east of the Property, is where tantalum and columbium were extracted from the ore and slag feedstock. Detailed descriptions of the process are available online in Earth Sciences Consultants (1999), and a brief summary is provided here.

Raw materials utilized in the facility east of the Property consisted of raw and beneficiated ores. Slag from tin extraction overseas which contains commercially valuable concentrations of tantalum and columbium was also used as a raw material. Aqueous hydrofluoric acid was used to digest the raw material, and extraction of the tantalum and columbium employed the reagents: methyl isobutyl ketone (MIBK), sulfuric acid, potassium, fluoride, sodium metal, sodium

chloride, nitric acid, sodium hydroxide, and ammonia (Earth Sciences Consultants, 1993).

The raw materials used for tantalum and columbium production contained uranium and thorium as naturally occurring trace constituents. These radioactive species were present in the process raw materials at an approximate concentration of 0.15 percent each of uranium oxide and thorium oxide. This concentration is sufficient to cause the ore and slag materials to be classified by the Nuclear Regulatory Commission (NRC) as source materials. Consequently, Fansteel operated under NRC License No. SMB-911 for the possession of source materials (Earth Sciences Consultants, 1993).

Uranium and thorium in the raw materials were not extracted from the ores by the digestion process. The radioactive species remained in the ore digestion residues which were retained in the east plant area, specifically Ponds Nos. 2 and 3. Therefore, the ore residues are classified as source material by the NRC (Earth Sciences Consultants, 1993). East of the Property, facility operations since 1990 have been limited to environmental monitoring; maintenance of buildings, grounds, and equipment remaining at the site; and cleanup of operating areas (Earth Sciences Consultants, 1993).

The facility east of the Property continued to be occupied by Fansteel since termination of processing in 1990. Chemical processing equipment used in the extraction of tantalum and columbium values from ore and slag materials was sold and removed from the site in 1990, 1991, and 1992.

On January 15, 2002, Fansteel Inc. filed a petition for bankruptcy pursuant to Chapter 11 of Title 11 (Bankruptcy) of the United States Code in the Federal Bankruptcy Court for the District of Delaware (Tessitore, 2002). As a result of the reorganization of Fansteel, FMRI was formed, with the sole purpose of maintaining and eventually decommissioning the Muskogee facility.

3.4 Current Use of the Property

Currently the Sintering Building and part of the Service Building are leased by AI International for metal fabrication, and the Electron Beam Building is leased by Global Machine Company, which performs precision product machining and metal fabrication.

Descriptions of Structures, Roads, Other Improvements on the Site

Roads: Access to the Property and to the FMRI facility east of the Property is via the asphalt-paved entrance driveway, from North 43rd Street East, through remote-

controlled gate serving both the buildings in the Property and the FMRI facility. There is a paved parking lot north of the Sintering Building, another on the north side of the Service Building, and paved access to the south side of the Service Building.

Service Building: This is a brick building, approximately 270 feet by 120 feet, with loading docks for trucks on the east end of the north side and for railcars on the north end of the east side. The building contains former environmental and metallurgical laboratory facilities, restrooms, conference rooms, and warehouse space which is currently leased to AI International, for metal fabrication.

Sintering Building: This is a brick building, approximately 240 feet by 90 feet. Currently the Sintering Building is leased by AI International. The building has chillers on the roof, and lieu of a basement, the building has a cooling water reservoir, both associated with Fansteel's operations from the 1950s through 1990.

At the time of the October 2006 site visit, the cooling water pumps, some of the machine shop equipment in the northwest corner, and the drums of liquid chemicals and most of the super sacks of dry chemicals had been removed, except for some sacks of spent alumina and Floricel 828, in a doorway at the west side of the open area in the northeast corner of the building. The open area was being used for storage of manufactured metal parts, and welding operations were going on in the southern part of the building.

When Fansteel was still operating, the building housed hydraulic presses to shape and compress metal powder, machine tools, and furnaces to sinter the shaped powder. At the time of the 2005 site visit, the Sintering Building contained a machine shop in the northwest corner including facilities to do machining under vacuum, and components of a cooling water system including a cooling tower on the roof, cooling water pumps at ground level, and cooling water reservoir capacity underground. Much of the east half of the building is open, and appears to be forklift-accessible. At the time of the September 2005 inspection it was used to store numerous sacks and super-sacks of dry chemicals and drums of liquid chemicals, either salvaged from facility operations or intended for use in facility decommissioning activities.

One floor drain was visible, which may have been covered at the time of the September 2005 site visit. The presence in 2005 of the stored chemicals in the area and the possibility of spills is considered an HREC.

The former machine shop in the northwest corner of the building was being used for custom fabrication of motorcycle frames. While the area was inactive during the visit, and photography in that room was restricted, it appeared that the main activity in the room was assembly and welding of steel parts.

A central room contains insulated pipes, electrical cables and the like. Due to the age of the building, the insulation may contain asbestos, but analysis for this is outside the scope of this assessment.

A reservoir formerly used for cooling water related to the sintering operation underlies much of the building. An access hatch near the center of the building opens to the reservoir. At least six rungs of an access ladder were visible under the water surface during the October 2006 visit, suggesting a water depth of at least six feet. A slight sheen was visible on the water surface, but is not considered an environmental concern. According to Burgess (2005) the cooling water was disposed through Fansteel's wastewater system and replaced with city water; the sludge from the reservoir was processed by Fansteel to recover any residual tantalum and columbium. A chiller unit was visible on the roof of the building but was not inspected during the site visit.

Electron Beam Building: This is a metal building, approximately 150 feet by 210 feet, mainly open and with an overhead bridge type crane running the length of the building. When Fansteel was still in operation, the building housed electron beam furnaces to purify sintered metal bars. The building still has cooling water reservoirs under the floor and what may be a transformer or similar in a room on the east side of the building. No marking indicating age or PCB status was observed.

Currently the Electron Beam Building is leased by Global Machine Company, which performs precision product machining and metal fabrication of steel, stainless steel and aluminum parts. Current operations include precision machining, cutting and welding, and occasional painting using epoxy paints or spray paint.

At the time of the September 2005 site inspection the building was used to store furniture and some equipment.

Guard House: This is a small brick building used by security personnel for the facility. It is located beside the entrance gate, east of the Sintering Building and north of the Service Building.

Metal Building (Building 6): At the time of the September 2005 site visit, a small metal building was located south of the Service Building. This building was originally used for electrical equipment, and later as storage for tractors and mowing equipment. The building currently houses two compressors supplying compressed air for operations at AI International.

3.5 Adjacent Properties

West of the property is North 43rd Street East, State Highway 165, North 41st Street East, and the Indian Capital Technology Center. North of that is Conners State College.

North of the property is the portion of the Northwest Property Area already conveyed to the Muskogee City-County Port Authority.

East and northeast of the property is the NRC-licensed portion of FMRI's property, which is currently in the process of being decommissioned. Beyond that is the Arkansas River.

To the south, between the Property and the interchange between US Highway 62 and State Highway 165, is the Borrow Pit Area of the former Fansteel Metallurgical Plant, a roughly triangular area approximately 1,000 feet by 400 feet. Soil from the Borrow Pit Area was partially removed for use in constructing berms, impoundments, improving drainage, and other uses at the Fansteel site. Surface water samples were collected from the Borrow Pit Area as part of the 1993 Remedial Assessment. Standing water was not visible in the historical aerial photographs or from the Property during the site visit. The land south of Highway 165 contains some residences but appears to be largely undeveloped.

Southwest of the interchange is a construction center for Morton Buildings, a manufacturer of metal-clad wooden buildings.

3.6 Site Inspection

Site reconnaissance was performed on the following dates: May 4, 2005, September 27, 2005, April 10-11, 2006, by J. Paul Davis, Environmental Programs Specialist with the DEQ, and John Flynn, Environmental Engineer with the DEQ, and on October 27, 2006, by J. Paul Davis. Reports from the September 2005 and October 2006 site visits are provided in Appendix F.

4.0 USER PROVIDED INFORMATION

4.1 Title and Judicial Records

Muskogee County Land Records Department maintains records of land transactions in the area since before statehood. These consist of:

- ledger indexes of transactions by township, range, section, and quarter-quarter-quarter section,
- microfilm copies of deeds and other instruments, and of the older ledgers,
- ledger indexes of transactions by subdivision, block and lot,
- scanned images of recent instruments, and
- database indexes of recent transactions.

In the site area, none of the land is subdivided. From the land records indexed as lying within the southeast quarter of Section 17, Township 15 North, Range 19 East, the DEQ looked at each available deed and lease document, dated from 1905 through 2006, indicated by the respective ledger to be located within the northeast quarter of the southeast quarter or the southeast quarter of the northeast quarter of Section 17. A brief summary of the findings follows; more detailed information obtained about prior ownership is tabulated in Appendix B. The land still subject to the NRC license, and therefore not part of the Property, was not included in the search.

- Between 1905 and 1956, the property was mostly divided into small parcels, each owned by a sequence of individual owners. A list of the parcels, owners and instruments conveying the parcels between them beginning in 1905 is tabulated in Appendix B. Land use during this period could not be readily ascertained from the instruments.
- The Muskogee Industrial Foundation accumulated portions of the western property area between 1956 and 1957 from individual owners.
- The Muskogee Industrial Foundation conveyed much of the western part of the property (Ne/4-SE/4 & Se/4-SE/4 of Sec. 17) to Tantalum Defense Corporation in May 1956 (1060/587); Tantalum Defense Corporation conveyed the same to Fansteel Metallurgical Corporation in September 1958 (1104/019).
- The Muskogee Industrial Foundation conveyed the northern portion of the Northwest Property Area (e/2-Se-NE & e/2-sw-Ne-NE) to Fansteel Metallurgical Corporation in July 1961 (1153/520).
- Following release of the Northwest Property Area from Fansteel Inc's NRC License, Fansteel, Inc. conveyed the northern portion of the Northwest Property Area to Muskogee City-County Port Authority in June 1999 (2645/140).

- FMRI, created as part of the reorganization of Fansteel Inc., currently owns the southern portion (“the property”) of the Northwest Property Area.

4.2 Environmental Liens or Activity and Use Limitations

The Northwest Property Area has been released for unrestricted use by the Nuclear Regulatory Commission, License SMB-911. Use of the area east and south of the Property is still restricted by the license.

4.3 Specialized Knowledge and Experience of the User

Mr. Scott Robinson, director of the Muskogee City/County Port Authority, served on a Site Specific Advisory Board convened by the Nuclear Regulatory Commission from 1997 through 1999, and he has been inside the buildings on the Property (Robinson, 2006). In addition, he has been advised of the preliminary findings of a Phase II Environmental Site Assessment of the adjacent property to the north, the Northern Parcel of the Northwest Property Area.

4.4 Valuation Reduction for Environmental Issues

This is outside the scope of this report. Please note that the All Appropriate Inquiry Regulation requires a determination of whether the purchase price and Fair Market Value have been affected by contamination on the property. The DEQ is not an authority on the value of the property, and therefore recommends that the Port obtain additional information on the Fair Market Value of the property.

4.5 Owner, Property Manager, and Occupant Information

James Burgess, Operations Manager with FMRI, was interviewed as Property manager. Mark Grindstaff, President of AI International, was interviewed as a tenant. Mr. Ryan Bennett and Mr. Justin Cooper of Global Machine Company were interviewed as employees of a tenant.

Interviews with landowners, tenants or property managers are documented in Appendix F.

4.6 Reason for Performing Phase I

The Muskogee City-County Port Authority has requested this Phase I assessment as part of the Bona Fide Prospective Purchaser protection from Superfund liability. The Port of Muskogee lies immediately to the north of the FMRI facility

and the Northwest Property Area, and the Port Authority wishes to make the property available for industrial development.

5.0 RECORDS REVIEW

5.1 Standard Environmental Record Sources

Federal National Priorities List (NPL) Sites Within One Mile

No NPL sites or delisted NPL sites are located within one mile of the property.

Federal Institutional Control / Engineering Control Registries

The only federal institutional control found was the NRC license for the FMRI Facility, from which the Northwest Property Area (which includes the Property) was released by the NRC.

Active Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) Sites Within one-half mile

The CERCLIS database provided by EPA lists no sites lies within one-half mile of the site, but three sites in and around Muskogee. **One (Pure Oil Company) is listed as having a Site Inspection completed November 14, 2006. The DEQ has recommended to EPA that any additional work at the Pure Oil Company site be conducted in accordance with the Brownfields Program.**

Archived CERCLIS Sites (on site and adjacent properties)

The CERCLIS list of archived sites includes no sites within ½ mile of the site, but does include four in Muskogee.

Table 6: Archived CERCLIS Sites in Muskogee

EPA ID	Site Name	Address	City	NPL
OK0001408228	CALLERY ROCKET FUEL	RIVERSIDE ROAD	MUSKOGEE	Not NPL
OK0001408236	HUB WASTE OIL	725 S. CHEROKEE	MUSKOGEE	Not NPL. Removal Action Planned
OK0002024594	THE PURE OIL COMPANY	2ND STREET/KALAMAZOO AVENUE	MUSKOGEE	Not NPL
OKN000606583	YAFFE IRON & METAL EXPLOSION	1100 SOUTH G STREET	MUSKOGEE	Not NPL

Federal Resource Conservation and Recovery Act (RCRA) CORRACTS Facility List within One Mile

One RCRA site, Zapata Industries Inc (ID: OKD990751059) is currently under corrective action. The site, located at 4400 Don Cayo Drive, lies within one mile of the property. According to the EPA website, the site was evaluated April 29, 1988 to determine if there may have been past or ongoing releases of hazardous waste posing risks to human health and the environment that would require corrective action. However, the site was not identified for corrective action.

Federal RCRA non-CORRACTS TSD Facilities List within one-half mile

The FMRI/Fansteel site is listed by the Resource Conservation and Recovery Act (RCRAInfo) website. It is listed in the Oklahoma Department of Environmental Quality RCRA Notifiers Listing as having state generator code 6 (“No Longer Generating, Still in Business”) and is not listed as a Treatment, Storage or Disposal Site. However, as stated elsewhere in this report, the site is instead

subject to regulation by the Nuclear Regulatory Commission through Special Materials License SMB-911.

State RCRA Generators List (on site and adjacent properties)

No tribal RCRA Generators are listed in the area. State RCRA generators are listed in Table 7.

Table 7: State RCRA Generators List

Inside or Adjacent?	EPA-ID	Facility Name	Location Address	EPA Class
Adjacent	OKD007221831	FANSTEEL METALS	10 TANTALUM PL	No Longer Generating
Adjacent	OKD981595143	INDIAN CAPITOL VOTECH	NW 45TH & 2 BLKS N ON HW	Conditionally-Exempt Small Quantity Generator (CESQG)

Federal Emergency Response Notification System (ERNS) List (site only)

Table 8: Federal ERNS Incidents List

NRC Report #	Incident Date	Street	Location County	City	State	ZIP	Suspected Responsible Company	Type Of Incident	Medium Affected	Material Name
No ERNS incidents were found for the Fansteel site, from 1982 through 2006.										

State and Tribal Lists of Hazardous Waste Sites within one mile

No tribal hazardous sites are listed within one mile. State hazardous waste sites are listed in Table 9. .

Table 9: State Hazardous Waste Sites

Inside or Adjacent?	EPA-ID	Facility Name	Location Address	State Class
Adjacent	OKD007221831	FANSTEEL METALS	10 TANTALUM PL	No Longer Generating
Adjacent	OKD981595143	INDIAN CAPITOL VOTECH	NW 45TH & 2 BLKS N ON HW	Conditionally-Exempt Small Quantity Generator (CESQG)
1 mile	OKD990751059	ZAPATA INDUSTRIES INC	4400 DON CAYO DRIVE	No Longer Generating, Out of Business
Less than 1 mile	OKR000002139	SEM MATERIALS MUSKOGEE PLANT	2501 PORT PLACE	CESQG

State and Tribal Landfills or Solid Waste Disposal Sites within one-half mile

No operating landfills are within one-half mile of the site, except for the closed pond under NRC administration noted above.

State and Tribal Underground Storage Tank List (property and adjoining properties)

No records of Underground Storage Tanks (UST) for the area were found in the tribal list. From an extract from the UST Notification Database maintained by Oklahoma Corporation Commission, no UST were registered to FMRI or present on the Property, but one facility for which geographic coordinates were given plots adjacent to the Property. Specifically, this is Indian Capital AVTS, 2403 N 41st St. E., N35° 46' 28.15", W95° 18'50.19". This has two active tanks: one 10,000-gallon steel tank containing gasoline, one 6,000-gallon steel tank containing diesel. It also has one 1,000-gallon tank, composition and contents unknown, permanently out of use.

Another facility is nearly adjacent to the property, ELF Asphalt, Inc., Don Cayo St., Port of Muskogee, (may now be owned by Koch Materials, Inc.), N35°46'47.15", W95°18'12.22". This has no active tanks, but one 1000-gallon concrete and steel tank. The state registry lists the contents as "Mixture", permanently out of use.

State and Tribal Leaking Underground Storage Tank (LUST) Cases

Oklahoma Corporation Commission records showed no Leaking Underground Storage Tank (LUST) cases within one-half mile of the Redevelopment Area. No tribal record of LUST cases within one-half mile was found.

One facility, Former 7-11 Store #39, may have been located approximately 0.55 miles southwest of the Property, based on the street address given. The latitude and longitude information given, are not consistent with the street address.

According to Earth Sciences Consultants (1999):

"The Former 7-11 facility was identified in the UST and LUST databases and is located at 3600 E. Shawnee Road, over one-quarter mile south of the subject property. Based on the site reconnaissance of the subject site and the surrounding area, the Former 7-11 facility is located approximately less than one-quarter mile south of the subject property. The Oklahoma Corporation Commission (OC) requires that all facilities that maintain USTs register those tanks. According to the UST database, the Former 7-11 facility currently owns one 4,030-gallon gasoline UST and one 10,152-gallon gasoline UST, which are permanently out of use. No information was available on any spill prevention or leak detection equipment utilized for the operation of these USTs.

"The OCC maintains lists of USTs that have experienced leaks or spills related to their operation. According to the LUST database, the Former 7-11 facility experienced a release from a regulated UST. The status of this release has been closed as of November 1993.

"The former 7-11 facility is located hydrogeologically downgradient from the subject property. Any releases from these USTs would have very minimal, if any, environmental impact on the soils and groundwater beneath the subject property."

State and Tribal Voluntary Cleanup and Brownfield Sites (one-half mile)

DEQ records show no Voluntary Cleanup sites and no Brownfield sites within ½ mile of the Property. However, the Port of Muskogee has approached the DEQ about applying for the Brownfield Program for the portion of the Northwest Property Area it has already acquired from FMRI. No tribal record of Voluntary Cleanup or Brownfields sites within one-half mile was found.

5.2 Additional Environmental Record Sources

The document database Agencywide Document Access and Management System (ADAMS) provided by the Nuclear Regulatory Commission for correspondence concerning NRC-licensed sites was consulted, specifically for information regarding the FMRI property and release of the Northwest Property Area from the license.

City of Muskogee records were not consulted because the property is in unincorporated Muskogee County.

5.3 Historical Use Information on the Property

Sanborn Fire Insurance Maps for Muskogee were consulted, but did not cover the Property. Historical use information on the property includes statements in the Remediation Assessment report and other submittals to the NRC, land records on file with Muskogee County, interviews with facility managers and tenants, aerial photographs and submittals to the DEQ.

5.4 Historical Use Information on Adjoining Properties

Aerial Photo Review

Available airphotos, with stereo coverage except as noted, were:

- 1958 CUE-4V-151, 152, (nominal scale1:20,000)
- 1964 CUE-1FF-134, 135, (nominal scale1:20,000)
- 1972 40101-272-39, 40, (nominal scale1:40,000)
- 1979 40101-179-149, 150, (nominal scale1:48,000)
- 1980 HAP80-415-140, 141, (nominal scale1:60,000)
- 1984 HARP-2884-123, 124, (nominal scale1:60,000)
- 1991 40000-4890-168, 169, (nominal scale1:40,000)
- 1995 Digital mosaic imagery (not stereo coverage) at 1-meter resolution.
- 2003 NAIP03-08156-135, 136, (1-meter resolution, printed at nominal scale1:60,000)

The portion of each aerial photograph showing the project area was digitized, enlarged to a scale of approximately 1:2400, and each was then superimposed

approximately on a map generated from the ArcView® database. Approximate property lines were added based on legal descriptions from the application to NRC for release of the Northwest Property Area from License SMB-911 and from the deed conveying the northern portion of the Northwest Property Area to the Muskogee Port Authority. Together with the corresponding descriptions, these are presented in Appendix D. As the original scale of the photographs ranged from 1:20,000 (photographed from lower-altitude flights) to 1:60,000 (photographed from high altitude), the level of detail available after enlargement to 1:2400 was fair to poor.

The aerial photographs show the Service Building, Sintering Building and electrical substation and present in 1958, and the Electron Beam Building added between July 1984 and April 1991. They show possible disturbed ground south and north of the Service Building in 1958, a slight depression north of the Service Building in 1964, possible bushes or piles of material southwest of the Service Building 1972 through 1981, and a possible disturbed area in the field north of the Service Building 1981 through 1984.

Zoning Review

The Property lies in Unincorporated Muskogee County, and is therefore not zoned by the City of Muskogee.

Land Use Records

Land ownership records were described previously, as were descriptions of land use provided by Earth Sciences Consultants (1993). Other land use records were not found.

Property Tax Files

Property tax files were not reviewed.

Building Department Records

Because the Property is in unincorporated Muskogee County, city building department records were not reviewed.

Fire Insurance Maps

Sanborn Fire Insurance Maps were not available for the site.

City Directories

City directories were not examined.

Interviews

The following individuals were interviewed:

Individual(s) Interviewed	Position	Affiliation
James Burgess	Operations Manager	FMRI
Mark Grindstaff	President	AI International

Individual(s) Interviewed	Position	Affiliation
Ryan Bennett	Manager	Global Machine Company
Keyton Payne	Radiation Safety Officer	FMRI
Justin Cooper	Foreman	Global Machine Company

6.0 SITE RECONNAISSANCE

6.1 *Methodology and Limiting Conditions*

Site reconnaissance consisted of walking the exterior and most but not all the interior portions of the site in September 2005, recording radiation levels and photographing the site. Photography was not permitted within the buildings leased at the time to AI International. The interior of the metal building south of the Service Building was not inspected. Records of the interviews are presented in Appendix F.

The assessment also utilized limited interior and exterior observations.

6.2 *Exterior Observations*

Exterior observations are noted in the report of the September 27, 2005 site visit and interview, presented in Appendix F. Photos are shown in Appendix C. No signs of environmental distress or unusual odors were observed in the Northwest Property Area, and measured radiation levels were consistently around 0.03 millirems per hour. The area south of the Service Building contained apparent overspray of blue paint. This is not considered a REC.

One PVC standpipe was observed and photographed standing at an angle on the ground. Its nature is not known. This is considered a data gap.

The electrical substation between the Service Building and the Electron Beam Building did not show signs of leakage, but determination of the PCB status of transformers and similar equipment is beyond the scope of this assessment. No plates or markings indicating PCB status or age of the equipment were seen from outside the fence enclosing the substation. This is considered a data gap.

6.3 *Interior Observations*

Interior observations are noted in the reports of the site visits on September 27, 2005 and October 27, 2006 and interviews on September 17, 2006, July 25, 2006, August 10, 2006 and September 27, 2006, presented in Appendix F. Photographs are shown in Appendix C. Observations are summarized below.

Service Building: In a September 2005 site visit, no evidence was found of storage of solvents or chemicals, and in a December 2005 interview Mr. Mark Grindstaff, president of AI International stated he knew of no chemicals in containers larger than 5 gallons or in aggregate more than 50 gallons stored on the property, and knew of no releases of chemicals.

The laboratory portion still contained some equipment including ventilation hoods, not in use. Exterior photographs and photographs of the laboratory section are shown in Appendix C. Ceramic tiles in the rest room and shower facilities showed the highest radiation readings (10 millirems per hour) seen in the

building. Low levels of radioactivity are associated with the pigments in the tile, and are not uncommon. This is not considered an REC.

No solvents or solvent odors were observed in the building during the walk-through surveys on September 27, 2005 and October 27, 2006. Similarly, radiation measurements performed during the 2005 walk-through survey showed no readings above background (0.03 millirems/hr) except readings of 10 millirems/hr from the ceramic tiles in the restrooms.

The warehouse portion is being used by AI International for metal fabrication. No drums or containers of chemicals, no indications of a release and no unusual odors were observed.

AI International does Computer Numerical Controlled (CNC) and manual machining, and laser cutting.

Electron Beam Building: The building appears in good repair, and at the time of the site visit was used to store small quantities of furniture and equipment. Metal covers in the floor were observed over what Mr. Burgess said were reservoirs for cooling water. Mr. Burgess stated these had been cleaned out in 1989 and filled with city water, and had not used since then. He was not able to provide information concerning additives to the cooling water, but did say piezometers had been installed in the late 1980s to check for leaks. He did not know the results. This is considered a data gap.

During the 1995 site visit, the Electron Beam Building was unused except for storage of furniture and miscellaneous equipment. Photographs are presented in Appendix C. In 2006, subsequent to the site visit, the building was leased to Global Machine Company for precision machining and welding of steel, stainless steel and aluminum parts (Bennett, 2006). At the time of the October 2006 site visit, operations included construction of a field service trailer and turning on a lathe of a heavy-duty steel perforated pipe 6 to 10 inches in diameter and 15 to 20 feet long.

Solvents observed included a 55-gallon drum of Sherwin-Williams® Reducer 54, used one time to attempt to thin epoxy paint for spray application and not used since then (Justin Cooper, 2006), and a drum (16 or 30 gallon) of Crystal Clean® solvent. According to a Sherwin-Williams Material Safety Data Sheet, Reducer 54 is a mixture of methyl isobutyl ketone (MIBK), ethanol, xylene and ethylbenzene. According to a Crystal Clean representative on site during the visit, the solvent is naphtha. Other liquids observed on site were diesel fuel, Weld-Kleen Anti-Splatter, cutting oil, spray paint, and epoxy paint components, all in containers of 5 gallons size or smaller.

There was what appeared to be a transformer, possibly associated with Fansteel's electron beam process, in a room on the east side of the building. Determining the presence or absence of PCB-containing oils in this equipment is beyond the

scope of this assessment. No unusual odors, beyond odors associated with welding, were observed.

During the September 2005 site visit, the Electron Beam Building was mostly empty, although empty drums, some furniture, some salvaged equipment and a few appliances were stored near the north end. The building has an overhead bridge-type crane running on rails mounted high on the walls. No unusual odors were observed in the building. Photographs are presented in Appendix C.

Sintering Building: At the time of the September 2005 site visit, this brick building was in good repair, but contained stored liquid and granular chemicals including flocculants in drums and ammonium bifluoride in super sacks, and some spilled granular chemicals were observed. An ammonia-like odor was observed even after the building was allowed to air out for an hour or so. Because they were subsequently removed, the spilled chemicals are considered an HREC, not an REC.

During the September 2005 site visit, dark gray smears identified as powdered metal (Burgess, 2005) were observed on the walls in one room. According to Sax (1984) niobium dust forms a moderate fire and explosion hazard when exposed to flame, and dry powdered tantalum ignites spontaneously in air. According to Burgess (2006) the powdered metal can be heated with a torch and merely glows, but had been removed except for a small amount remaining as a stain on the paint. These smears are not considered a REC, as they no longer present a hazard. During the October 2006 site visit, the smears lower than approximately seven feet above the floor had been removed.

Until after the September 2005 site visit, the building was used to store super sacks and drums of various materials, including alumina powder, granular ammonium bifluoride, sodium hydroxide, quicklime and others. Several Super Sacks showed signs of spillage, and the building had an ammonia-like odor. Some of these materials were intended for use in decommissioning activities, while others were unused process materials being stored for sale. During the October 2006 visit, a floor drain was observed near the middle of the area where the materials had been stored.

During the October 2006 site visit, only a few super sacks of spent alumina and Floricel 828 remained. Therefore the past presence of stored chemicals and the fact that some were spilled is considered a Historical Recognized Environmental Condition (HREC).

A ventilation fan and vent stacks were observed outside the Sintering Building. No deposits were observed near the vent stacks. According to Burgess (2006) the vents were for the exhaust from vacuum pumps, and any residues collecting in the

vents were processed for tantalum and columbium content. Photographs are presented in Appendix C.

Cooling water pumps were observed inside the Sintering Building, and a cooling tower was observed on the roof. The lack of information concerning additives to the cooling water is considered a data gap.

Vacuum pumps and hydraulic presses were used inside the building. Determining the PCB status of these is beyond the scope of this assessment.

Guardhouse: During the October 2006 site visit, there were no signs of stored chemicals, spilled materials or unusual odors in the guardhouse.

Metal Building (Building 6): At the time of the October 2006 site visit, the building contained two operating air compressors. Spilled oil and absorbent to pick up the oil were seen on the concrete floor. No unusual odors were observed.

7.0 INTERVIEWS

7.1 Interviews with Past and Present Owners of the Property

The owner is a corporate entity. The site manager was interviewed instead. As Fansteel or FMRI have owned the property for nearly fifty years, past owners were not interviewed.

7.2 Interviews with Key Site Managers

The owner's representative and site manager interviewed was Mr. James Burgess, manager of plant operations and a long-time employee of Fansteel and FMRI. The records of the interviews are given in Appendix F.

7.3 Interviews with Operators and Occupants of the Property

The tenant in the Service Building and the Sintering Building (since 2006) is AI International. Mr. Mark Grindstaff, president of AI International, was interviewed. There was no tenant in the Electron Beam Building until 2006, when Global Machine Company leased the building. Interviews with Mr. Grindstaff and Mr. Bennett are given in Appendix F.

7.4 Interviews with Neighbors and Others

Neighbors were not interviewed.

7.5 Interviews with State and/or Local Government Officials

Various DEQ staff members were interviewed concerning the site but interview notes were not recorded. Instead, DEQ and NRC files were reviewed. Representatives of the Cherokee Nation were also interviewed but said the Property was not on tribal land.

8.0 FINDINGS

The following REC were noted.

Groundwater contamination with total arsenic, cadmium and lead, and total alpha activity and total Radium 226 plus Radium 228 activity is considered a REC.

Groundwater contamination with Trichloroethene, 1,1,1-trichloroethane and 1,1-dichloroethene observed in 2006 north of the Property is considered a REC.

The historical presence of licensed material in specific rooms in the Service Building is considered an HREC.

The presence of stored chemicals including ammonium bifluoride in the Sintering Building, and the fact that some were spilled is considered an Historical Recognized Environmental Condition (HREC).

Powdered tantalum metal observed in the Sintering Building in September 2005 was subsequently removed except for stains left in the paint above approximately seven feet from the floor. While the metal dust would be considered a moderate fire hazard (Sax, 1984) the stains are not, and the powdered metal is therefore considered an HREC.

The release of supernatant from Pond 3 to the ground surface to the west and north is considered an HREC.

The release during tornado in 1999, of moist low-level radioactive material excavated from Pond 5 in 1993 and stored in bags in the Sodium Reduction Building, is considered an HREC.

The presence of the cooling water reservoirs in the Sintering Building and Electron Beam Building and the absence of information concerning additives to the water or releases from the reservoir, are considered data gaps.

The results of an assessment in the late 1980s of possible leakage of cooling water were not available. This is considered a data gap.

Historic information is not available indicating the management of radioactive material in the field in the northeast corner of the Property. However, if small quantities of radioactive material were present on the site, they could have gone undetected. A radiological survey of the northeast corner of the Property, performed after FMRI removes the contents of Pond 3 and ships them off-site, could confirm the presence or absence of radioactive materials on the property. Because the area was surveyed in 1995 but the current standard for radiological surveys, Multi-Agency Radiation Survey and Site Investigation Manual

(MARSSIM) was only in draft form in 1997, it is not clear whether the surveys would meet the current standard. This is considered a data gap.

The lack of maps showing a natural gas pipeline in the western portion of the property is considered a data gap.

The PCB status of the transformers in the electrical substation west of the Service Building could not be determined. This is considered a data gap.

The nature of a PVC standpipe was observed and photographed standing at an angle on the ground east of the Electron Beam Building is not known. This is considered a data gap.

9.0 OPINION

The respective impacts of the RECs found are discussed below.

Recognized Environmental Condition	Anticipated Impact on the Properties
Groundwater contamination associated with Fansteel/FMRI operations has been documented.	This includes radioactive uranium, dissolved metals and MIBK. Screening levels for Gross Alpha radiation, aluminum, total Arsenic Total Cadmium and Total Lead have been exceeded in groundwater samples collected from wells in or adjacent to the property. In addition, only two groundwater analyses for VOC and SVOC have been reported for wells on or near the Property. The risk to human health and the environment arising from this groundwater contamination should be assessed, and additional groundwater analyses may be required.
Groundwater contamination north of the Property with TCE, 1,1-DCE and 1,1,1-TCA was observed in 2006	The extent of the contaminated groundwater has not been delineated, and could extend onto the Property. FMRI's interceptor trench and wastewater treatment is expected to intercept the groundwater plume before reaching the Arkansas River, but the effects of soil vapor intrusion should be considered when building on the Property.
Spilled granular chemicals were observed in the Sintering Building, but have subsequently been removed.	A list of chemicals stored was not provided, but several super sacks labeled "Ammonium Bifluoride" were observed. Ammonium Bifluoride is potentially corrosive, toxic and reactive. Since the building is currently leased for a metal fabrication operation, the spilled material has removed. It is therefore considered an HREC
Pond 3 contents	Until the contents of this pond are properly removed or the pond is properly closed in accordance with a NRC-approved Decommissioning Plan, the presence of this pond on the neighboring property is considered a Recognized Environmental Condition. As Pond 3 is downhill from the Property, and FMRI is making arrangements to send the contents off-site, additional assessment may not be required.

10.0 DATA GAPS

The absence of information concerning additives to the cooling water reservoirs and any releases from the reservoirs is considered a data gap. If additives such as chromium compounds had been used, the groundwater could be affected in the event of a release. The data gap could be satisfied by additional review of Fansteel records, if still extant, concerning additive purchases or by obtaining a copy of the report, if it still exists, of the assessment performed in the late 1980s in association with the piezometer installation mentioned by Burgess (2006).

The lack of information concerning the PCB content of fluids used in the hydraulic presses and vacuum pumps in the Sintering Building is considered a data gap. This data gap could be satisfied by determination of the former location of this equipment together with analysis for PCB of wipe samples from the floor in the area.

AI International's operations in the Sintering Building have not been inspected, and the requests for follow-up interviews concerning operations there have not been responded to; this is considered a data gap. This data gap could be satisfied by a follow-up inspection and interview.

The operations at Global Machine Company in the Electron Beam Building have not been inspected, and are considered a data gap. This data gap could be satisfied by a follow-up inspection and interview.

The radioactivity survey of the fields in the northeast corner of the Property, opposite Pond 3, used to justify release of the area from the NRC license, was performed to a different standard than MARSSIM, the current standard. Whether the survey performed in 1995 satisfies the current MARSSIM standard, which was only in draft form in 1997, is not known and is considered a data gap. This data gap could be resolved by comparison of the methods used to the current standard.

The lack of maps showing a natural gas pipeline in the western portion of the property is considered a data gap. This data gap could be satisfied by review of maps by ONG showing the location of the lines.

The PCB status of the transformers in the electrical substation west of the Service Building could not be determined. This is considered a data gap. This data gap could be satisfied by review of FMRI or OG&E records or by inspection and sampling of the equipment for PCB.

The nature of a PVC standpipe was observed and photographed standing at an angle on the ground east of the Electron Beam Building is not known. This is considered a data gap. This data gap could be satisfied by probing and possibly sampling the standpipe.

11.0 CONCLUSIONS

The DEQ has performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitations of ASTM Practice E-1527-05 of the portion of the Northwest Property Area retained by FMRI, located 10 Tantalum Place, Muskogee, Muskogee County, Oklahoma, the *property*. Any exceptions to, or deletions from, this practice are described in Section 12.0 of this report.

This assessment has revealed the following recognized environmental conditions in connection with the property:

- Groundwater contamination associated with FMRI operations is considered a Recognized Environmental Condition (REC).
- Groundwater contamination with TCE, 1,1,1-TCA and 1,1-DCE observed in 2006 in groundwater north of the Property is considered a Recognized Environmental Condition (REC).
- Powdered tantalum or Columbium metal identified by Burgess (2005) during the September 2005 site visit in the Sintering Building is considered moderate fire hazard (Sax, 1984) but has been reported to have been removed except for stains in the paint (Burgess, 2006). As the stains are not dust, the presence of the powdered metal is considered only a Historic Recognized Environmental Condition (HREC).
- The presence of stored chemicals including ammonium bifluoride in the Sintering Building, and the fact that some were spilled is considered an Historical Recognized Environmental Condition (HREC).
- The presence of WIP in Pond 3, east of the Property, is considered an REC. As FMRI is making arrangements to ship this material off-site, this may soon become an HREC.

These RECs represent possible risks, either from the standpoint of exposure to workers or the public, or from inadvertent generation of hazardous waste, especially during demolition and excavation. To quantify the risks posed by an REC will require limited Phase II sampling and analysis appropriate to the REC, and comparison of the concentrations of suspected hazardous substances or petroleum products to risk-based screening levels or other regulatory levels. Any demolition and environmental assessment and cleanup in this area should be coordinated with the DEQ.

Owing to the era in which the buildings in *the property* were built, lead-based paint, asbestos-containing materials, and light fixtures containing polychlorinated biphenyls (PCB) could be present. Determination and characterization of these materials was beyond the scope of this assessment.

12.0 DEVIATIONS

- At the request of FMRI, no sampling has been performed on the Property as part of this Targeted Brownfield Assessment.
- If the purchase of the Property by Muskogee City/County Port Authority occurs more than 6 months after the date of this TBA report, additional follow-up work will be required to preserve the Bona-Fide Prospective Purchaser Defense to Superfund Liability.

City directories and city zoning were not examined because the Property is in Unincorporated Muskogee County. This is not considered a data gap.

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¹ At <http://www.nrc.gov/reading-rm/adams/web-based.html>, the NRC makes available on-line the ADAMS document database. Text and Acrobat® PDF versions of the Remediation Assessment Report can be found using the “Advanced Search” option and executing a search with search criterion “Fansteel” with document dates of “01/01/1990-01/01/1994”

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APPENDICES

Appendix A - Site Maps

Appendix B –Property Ownership History

Appendix C - Site Photographs

Appendix D - Historical Research Documentation

Aerial Photographs

Fire Insurance Maps

Topographical Maps

Appendix E - Regulatory Records Documentation

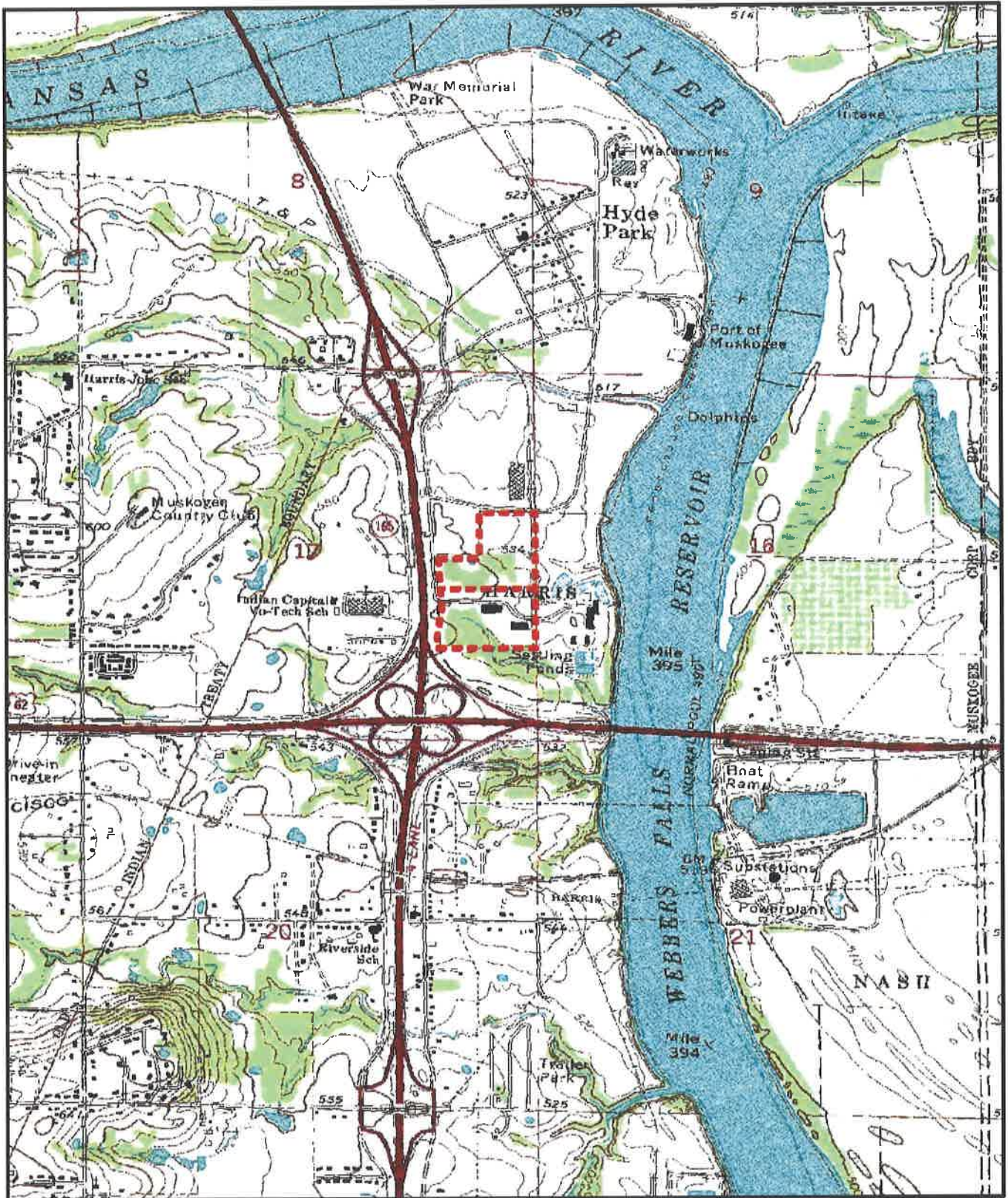
Appendix F - Interview Documentation

Appendix G – Qualifications of Environmental Professionals

Appendix A

Site Maps

- Figure 1 Area Topography
- Figure 2 Site Plan, Northwest Property Area
- Figure 3 Site Plan, FMRI Facility
- Figure 4 OWRB-Registered Wells within 1 mile of the Northwest Property Area
- Figure 5 Water Level Elevations, September 2006
- Figure 6 Well Locations at the Muskogee Port Authority TBA Site, Muskogee, OK



Legend

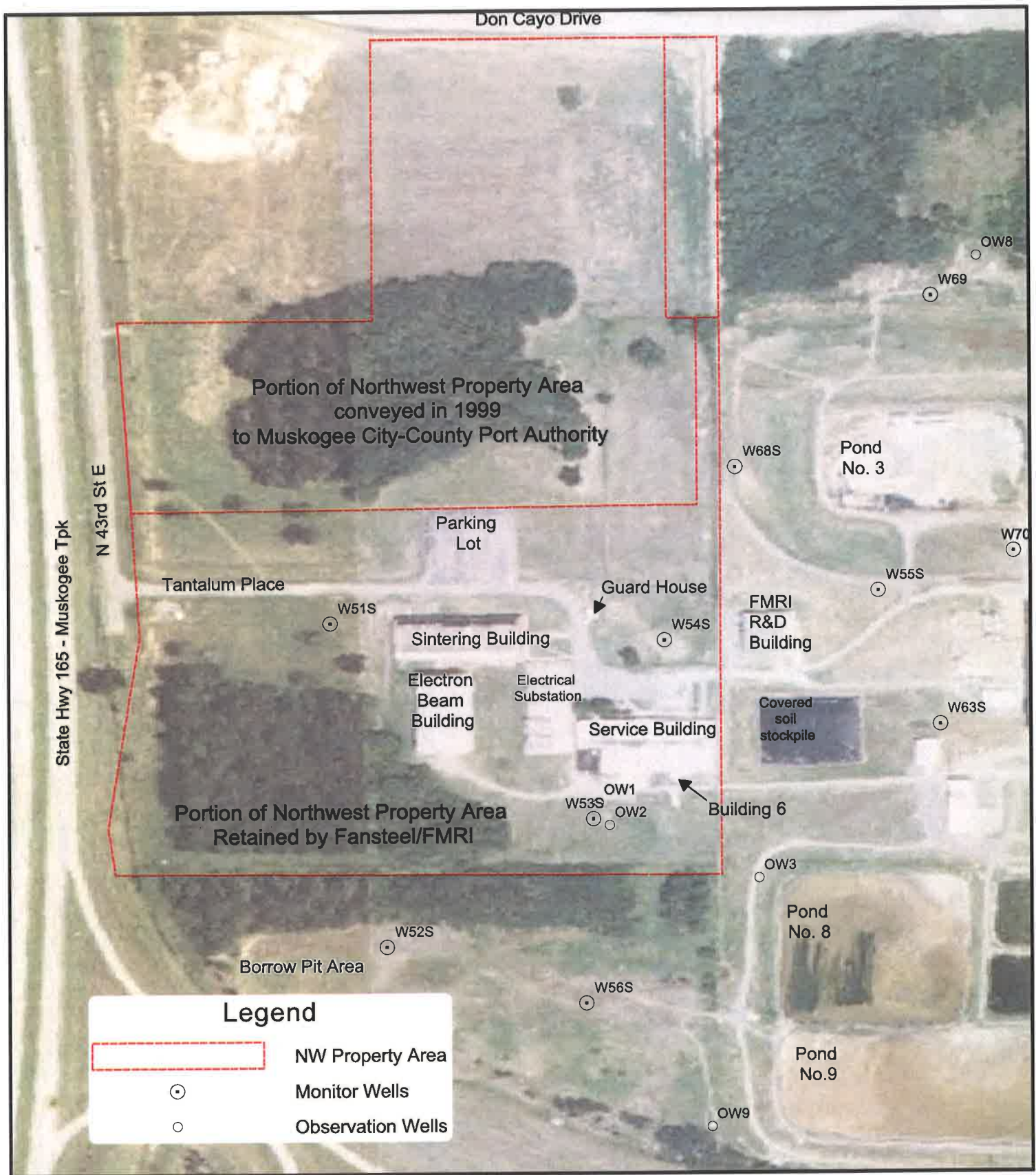
 NW Property Area, Approximate



Note: Property Boundary is approximate.
Not to be used for engineering purposes

Source: 7.5-minute Quadrangle Map
Northeast Muskogee, Okla., USGS, 1974

Figure 1
LOCATION MAP
NORTHWEST PROPERTY AREA, FMRI SITE
Targeted Brownfield Assessment
Muskogee City/County Port Authority



Legend

- NW Property Area
- Monitor Wells
- Observation Wells

Notes:
 Survey Coordinates provided by FMRI, April 2006
 Digital Orthoquad Photo (1-meter resolution) shot 2003
 Registration of Photo to Surveyed Locations is approximate.

Property Line is approximate and not to be used for engineering or construction purposes.

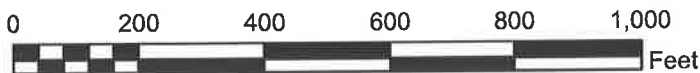


Figure 2
 Site Plan, Northwest Property Area, FMRI Site
 Targeted Brownfield Assessment
 Muskogee City/County Port Authority



FIGURE 4-1
FACILITY LAYOUT, GRADING AND WELL LOCATION PLAN
DECORATING PLANT
FANSTEEEL, INC.
MUSKOGEE, OKLAHOMA

PROJECT NO. 6473425
 DATE 11/15/88
 DRAWN BY J. L. HARRIS
 CHECKED BY R. L. HARRIS
 APPROVED BY R. L. HARRIS
 TITLE FACILITY LAYOUT, GRADING AND WELL LOCATION PLAN

FANSTEEEL, INC.
 MUSKOGEE, OKLAHOMA

Barth, Science & Construction, Inc.
 6473425
 D-01

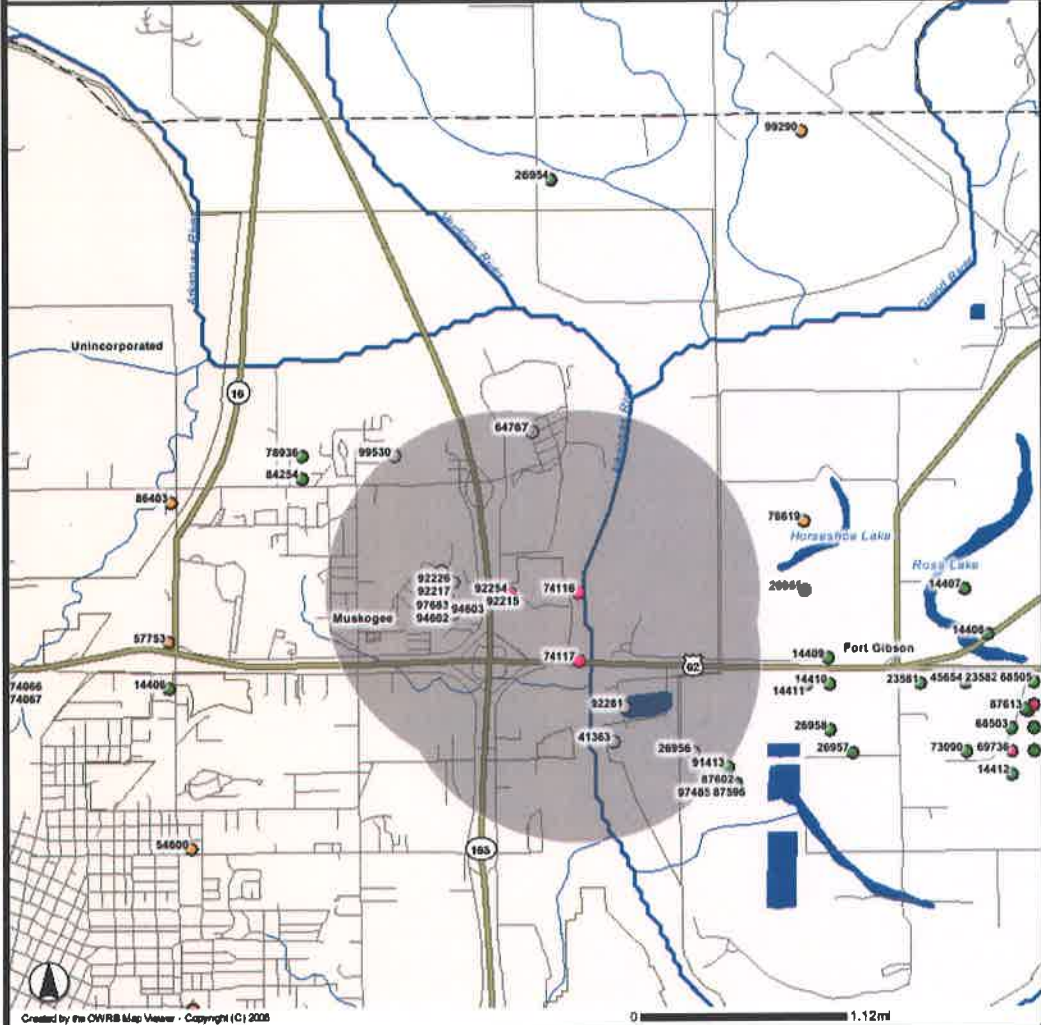
1. EXISTING UTILITY LOCATIONS AND APPROXIMATE LOCATIONS SHOWN.
 2. AREA TO "REMOVE" CONDUIT INFORMATION SHOWN BY DASHED LINE.
 3. SPREAD CEMENT FOR EXISTING SURFACE IMPROVEMENT.

APPROXIMATE LOCATION OF ARKANSAS RIVER
 APPROXIMATE LOCATIONS OF
 APPROXIMATE UTILITY
 APPROXIMATE UTILITY
 APPROXIMATE UTILITY

CONTOUR INTERVAL 5 FEET
 CONTOUR INTERVAL 10 FEET
 CONTOUR INTERVAL 20 FEET
 CONTOUR INTERVAL 50 FEET
 CONTOUR INTERVAL 100 FEET
 CONTOUR INTERVAL 200 FEET
 CONTOUR INTERVAL 500 FEET
 CONTOUR INTERVAL 1000 FEET

REFERENCES
 1. SURFACE TOPOGRAPHY WAS OBTAINED FROM A PHOTOGRAMMETRIC MAP
 2. CONTOUR INTERVAL 5 FEET
 3. CONTOUR INTERVAL 10 FEET
 4. CONTOUR INTERVAL 20 FEET
 5. CONTOUR INTERVAL 50 FEET
 6. CONTOUR INTERVAL 100 FEET
 7. CONTOUR INTERVAL 200 FEET
 8. CONTOUR INTERVAL 500 FEET
 9. CONTOUR INTERVAL 1000 FEET

Wells within 1 mile of FMRI



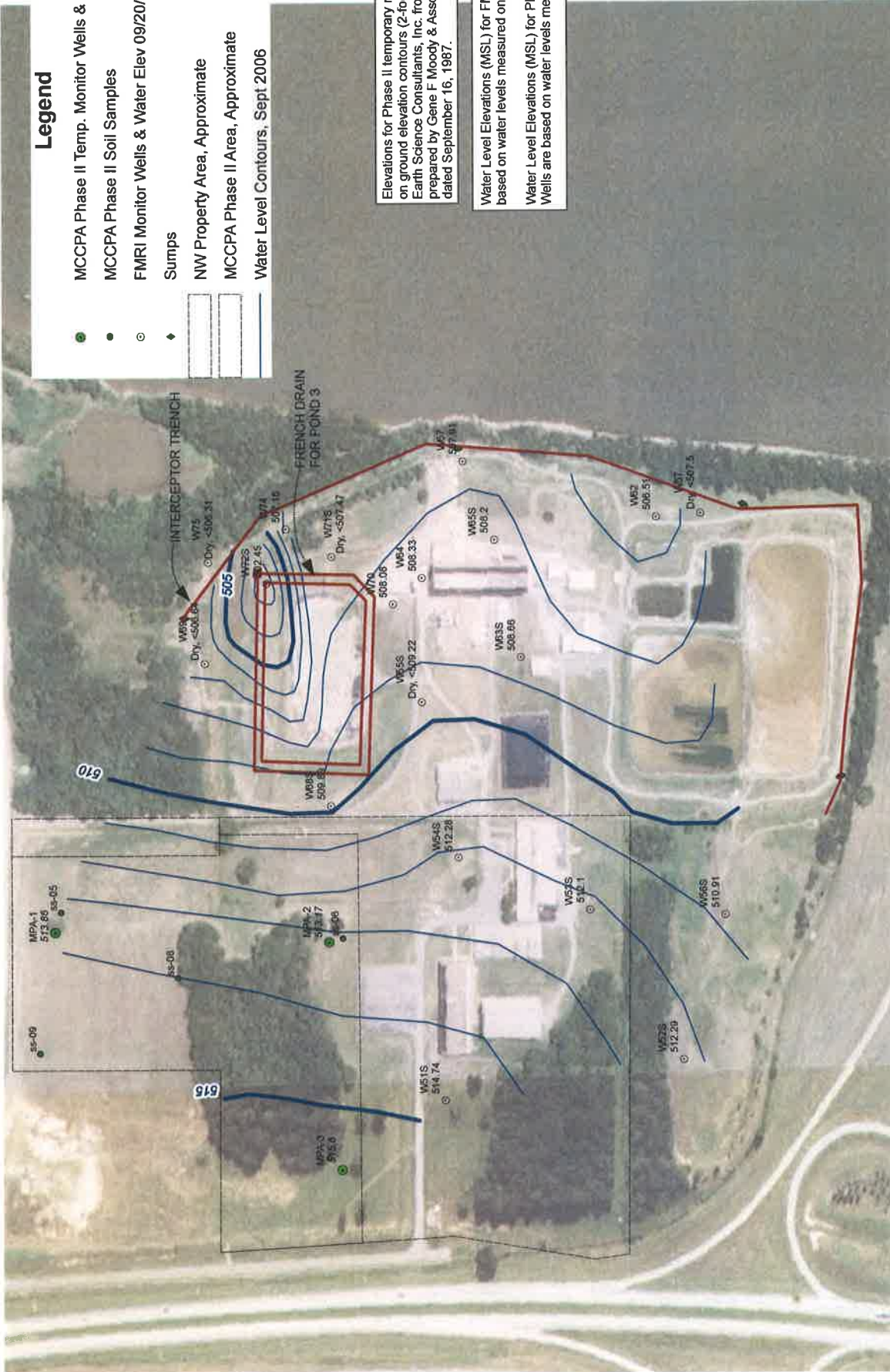
- Legend**
- Selected Features
 - theBuffer
 - theBufferTarget
 - Counties
 - Reported Well Logs
 - Groundwater Well
 - Monitoring Well
 - Other
 - Cities
 - Populated Place/County Seat
 - Highways
 - County Roads
 - Lakes and Ponds
 - Streams
 - Rivers
 - Canals
 - Municipal Boundaries

Created by the OWRB Map Viewer - Copyright (C) 2008

0 1.12mi

Map Service Disclaimer: The map layers displayed in this map viewer were produced from various sources at varying degrees of accuracy and precision. Therefore these maps should only be used for general reference information. Metadata documents are provided for each geographic layer. These documents describe the layer's purpose and limitations.





Legend

- MCCPA Phase II Temp. Monitor Wells & Water Elev 09/07/2006
- MCCPA Phase II Soil Samples
- FMRI Monitor Wells & Water Elev 09/20/2006
- Sumps
- NW Property Area, Approximate
- MCCPA Phase II Area, Approximate
- Water Level Contours, Sept 2006

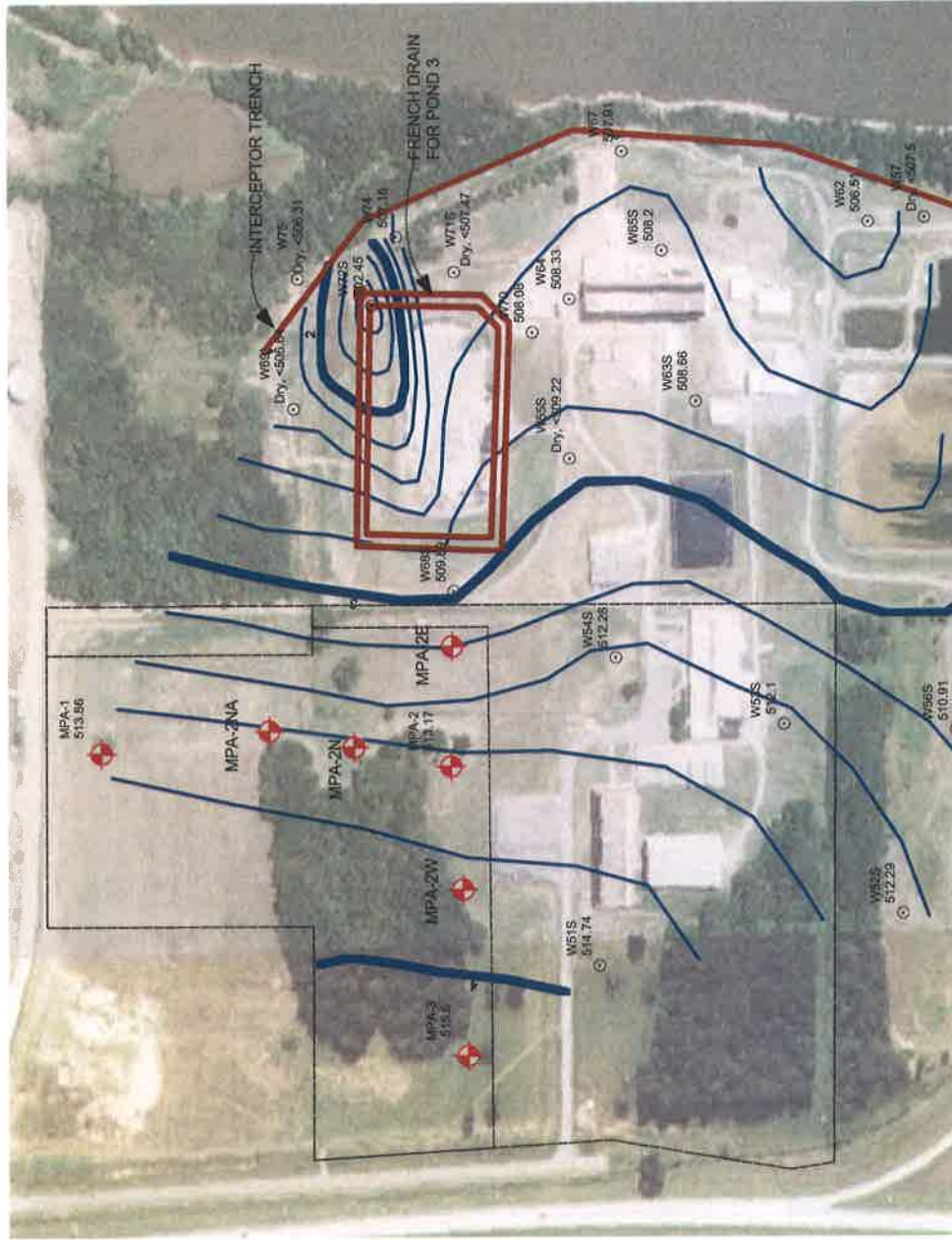
Elevations for Phase II temporary monitor wells are based on ground elevation contours (2-foot interval) digitized by Earth Science Consultants, Inc. from a topographic map prepared by Gene F. Moody & Associates, Inc., Tulsa dated September 16, 1987.

Water Level Elevations (MSL) for FMRI Monitor Wells are based on water levels measured on 9/20/2006
 Water Level Elevations (MSL) for Phase II Temporary Monitor Wells are based on water levels measured on 9/7/2006.



**Water Level Elevations, September 2006
 Well and Trench Locations
 FMRI Facility, Muskogee, OK**


Notes:
 Survey Coordinates provided by FMRI, April 2006
 Digital Orthorectified Photo (1-meter resolution) shot 2003
 Registration of Photo to Surveyed Locations is approximate.



Map Created 1/5/2007



Legend

-  DEQ Well Locations
-  FMRI Monitor Wells & Water Elev 09/20/2006

Elevations for Phase II temporary monitor wells are based on ground elevation contours (2-foot interval) digitized by Earth Science Consultants, Inc. from a topographic map prepared by Gene F. Moody & Associates, Inc., Tulsa dated September 16, 1987.

Water Level Elevations (MSL) for FMRI Monitor Wells are based on water levels measured on 9/20/2006
 Water Level Elevations (MSL) for Phase II Temporary Monitor Wells are based on water levels measured on 9/20/2006.

Notes:
 Survey Coordinates provided by FMRI, April 2006
 Digital Orthoquad Photo (1-meter resolution) shot 2/03
 Registration of Photo to Surveyed Locations is approximate.



Figure 6
Well Locations at the Muskogee Port Authority TBA Site
Muskogee, OK

Appendix B

Property Ownership History

Summary of Muskogee County Land Records
Muskogee City/County Port Authority TBA

Township-Range-Section: 15-19-17, Ne/4 SE/4 and se/4 Se/4 NE/4, Address: 10 Tantalum Pl., Muskogee

Grantor	Grantee	Kind of Instrument	Date of instrument	qtr-Qtr-QTR	Sec	Book/Page	Date of Filing	Remarks / REC
Jas. Mackley	W J Ratley	WD	05/18/1905	nw-Nw-SE & Se-NE	17	0002/584	06/02/1905	
Annie Thompson	Jeff Ratley	WD	01/30/1906	sw-Ne-SE	17	0030/576	02/03/1906	
M J Ratley et ux	J W Myers	Mtg	11/05/1907	nw-Nw-SE & Se-NE	17	0098/318	11/05/1907	
M J Ratley et ux	J E Huuff	O&GL	07/25/1908	Se-NE & w/2-Ne-SE	17	0138/011	09/01/1908	Oil & Gas Lease
M J Ratley et ux	Alice J Amyx	WD	11/21/1908	nw-Ne-SE	17	0156/362	06/01/1909	
Alice J Amyx & J T Amyx	First State Bank	Mtg	08/29/1910	nw-Ne-SE	17	0164/025	09/21/1919	
Annie Mackey et al	Richard Boudinot	WD	08/29/1906	se-Ne-SE	17	0186/162	10/17/1910	
M J Ratley et ux	S M Ledbetter	WD	03/24/1911	s/2-Se-NE	17	0199/148	03/27/1911	
Alice J Amyx et con	J Harvey Randall	WD	07/06/1912	nw-Ne-SE	17	0230/368	09/23/1912	
Beulah Radley	A S Brown	O&GL	12/14/1915	e/2-Ne-SE	17	0276/556	12/15/1915	
County Court	Sarah J Ledbetter	Order	06/07/1918	s/2-Se-NE	17	0337/429	02/25/1919	Setting apart homestead for family at death of Sterling M Ledbetter
M J Ratley et ux	G G Sadler et ux	GWD	09/09/1919	sw-Ne-SE	17	0342/327	09/23/1919	
Beulah Sullivan (nee Radley)	C H Pittman	GWD	09/13/1919	e/2-Ne-SE	17	0342/344	10/04/1919	
J Harvey Randall	Luella J Randall	WD	06/16/1913	nw-Ne-SE	17	0343/123	01/29/1919	Less O/G Lease to Nuff
C H Pittman et ux	Ray L Bunch	WD	10/31/1919	20' strip along N edge of nw-Se-SE & e/2-Ne-SE	17	0360/116	10/31/1919	
Ray L Bunch et ux	C H Pittman	WD	02/25/1925	e/2-Ne-SE	17	0502/390	02/25/1925	
C H Pittman et ux	Lucia Pittman	QCD	02/21/1927	e/2-Ne-SE	17	0556/508	05/09/1927	

Summary of Muskogee County Land Records
Muskogee City/County Port Authority TBA

Township-Range-Section: 15-19-17, Ne/4 SE/4 and se/4 SE/4 NE/4, Address: 10 Tantalum Pl., Muskogee

Grantor	Grantee	Kind of Instrument	Date of instrument	qtr-Qtr-QTR	Sec	Book/Page	Date of Filing	Remarks / REC
Luticia Pittman	D Howard Doane trustee	QCD	07/25/1927	20' strip along N edge of nw-Se-SE & e/2-Ne SE	17	0563/314	09/28/1927	
Ray L Bunch et ux	Central States Life Ins. Co.	QCD	10/13/1927	20' strip along N edge of nw-Se-SE & e/2-Ne SE	17	0570/009	01/30/1928	
D Howard Doane et ux	Central States Life Ins. Co.	QCD	08/18/1927	20' strip along N edge of nw-Se-SE & e/2-Ne SE	17	0570/011	01/30/1928	
Sarah J Ledbetter	Interstate Mtg Co.	Mtg	03/09/1929	s/2-Se-NE	17	0595/366	03/11/1929	
Sarah J Ledbetter	A Grase	WD	09/01/1930	s/2-Se-NE	17	0631/276	11/28/1930	
A Grase	R J Nemic et al	WD	04/26/1932	s/2-Se-NE	17	0652/355	05/03/1932	
Central States Life Ins. Co.	Elise Sackrey	QCD	12/13/1932	20' strip along N edge of nw-Se-SE & e/2-Ne SE	17	0660/304	01/28/1933	
Elise Sackrey	O T Johnson	QCD	12/13/1932	20' strip along N edge of nw-Se-SE & e/2-Ne SE	17	0667/034	09/14/1934	
O T Johnson	Central States Life Ins. Co.	QCD	09/01/1933	20' strip along N edge of nw-Se-SE & e/2-Ne SE	17	0679/192	07/03/1937	
R J Nemic	J A Barton	GWD	07/01/1937	s/2-Se-NE	17	0714/377	07/23/1937	
J W Hackman	Public	Affid	07/02/1937	s/2-Se-NE	17	0720/004	12/31/1937	First Bank of Muskogee owned Mtg released to M J Ratley - 0098/0173

Summary of Muskogee County Land Records
Muskogee City/County Port Authority TBA

Township-Range-Section: 15-19-17, Ne/4 SE/4 and se/4 SE/4 NE/4, Address: 10 Tantalum Pl., Muskogee

Grantor	Grantee	Kind of Instrument	Date of instrument	qtr-Qtr-QTR	Sec	Book/Page	Date of Filing	Remarks / REC
D Howard Doane et ux	Central States Life Ins. Co.	Deed	08/01/1927	e/2-Ne-SE & 20' strip along N edge of nwSeSE	17	0748/276	06/05/1940	
Central States Life Ins. Co.	Mutual Savings & Life Inc	WD	09/27/1941	e/2-Ne-SE & 20' strip along N edge of nwSeSE	17	0804/309	06/11/1943	1/4 int. in Mineral Rights
Luticia Pittman	Anita Deem	QCD	12/17/1946	prt(Ne)-SE	17	0868/500	12/22/1946	
Anita Deems et al	L A Jackson	WD	12/23/1946	n/2-Se-NE	17	0869/108	12/31/1946	
Anita Deems et al	L A Jackson	WD	12/23/1946	20' strip along N edge of nw-Se-SE & e/2-Ne-SE	17	0869/110	12/31/1946	
J A Barton et ux	Alvin M Starts et ux	QCD	05/17/1947	s/2-Nw-NE	17	0878/141	05/20/1947	
Alvin M Starts et ux	J A Barton et ux	WD	05/19/1947	s/2-Nw-NE	17	0878/142	05/20/1977	
Albert R Hensley et ux	George F Boston et ux	QCD	12/01/1947	sw-Ne-SE	17	0890/299	12/01/1947	except N 20'
George F Boston et ux	Alvin M Starts	WD	11/29/1947	sw-Ne-SE	17	0890/303	12/01/1947	
L W Ratley	Public	Affid	11/25/1947	sw-Ne-SE	17	0890/534	12/05/1947	Jeff Ratley same person as Moses J Ratley
L A Jackson et ux	Milton V Theimer	Contract	03/09/1950	sw-Ne-SE	17	0957/550	02/10/1951	or e/2-Ne-SE
L A Jackson et ux	Milton V Theimer	WD	03/07/1950	sw-Ne-SE	17	0988/039	07/29/1952	or e/2-sw-Ne-SE
J A Barton et ux	M M Simmons	WD	09/13/1952	s/2-Se-NE	17	0990/039	09/17/1952	
Okla Corporation Commission	Public	Cert. Non-Devel	09/16/1952	s/2-Se-NE	17	0990/082	09/19/1952	

Summary of Muskogee County Land Records
Muskogee City/County Port Authority TBA

Township-Range-Section: 15-19-17, Ne/4 SE/4 and se/4 SE/4 NE/4, Address: 10 Tantalum Pl., Muskogee

Grantor	Grantee	Kind of Instrument	Date of instrument	qtr-Qtr-QTR	Sec	Book/Page	Date of Filing	Remarks / REC
Milton V Thieme et ux	Muskogee Industrial Foundation	Option	07/21/1956	e/2-Ne-SE & N20'-sw-Ne-NE	17	1055/543	07/30/1956	
M M Simmons et ux	Muskogee Industrial Foundation	Option	07/21/1956	e/2-s/2-Se-NE	17	1055/545	07/30/1956	
L A Jackson et ux	Muskogee Industrial Foundation	Option	07/21/1956	e/2-n/2-Se-NE	17	1055/551	07/30/1956	
Muskogee Industrial Foundation	William Edward Simms	Option	07/28/1956	e/2-Ne-SE & e/2-Se-NE & se Ne-SE & Se-SE	17	1056/097	08/01/1956	
William Edward Sims	Tantalum Defense Corporation	Assign Option Control	09/10/1956	e/2-Ne-SE & (N20' of sw-Ne-NE)	17	1058/374	09/18/1956	
Mutual Savings & Life Inc	Muskogee Industrial Foundation	Mineral Deed	09/20/1956	e/2-Ne-SE w/ 20 Ac & SE 5.55 Ac Lt 3 Sec 16	17	1059/326	10/08/1956	
Okla Corporation Commission	Public	Cert. Non-Devel	10/02/1956	E/2-NE & E/2-SE	17	1059/345	10/08/1956	
M M Simmons et ux	Muskogee Industrial Foundation	WD	09/25/1956	se-Se-NE	17	1060/101	10/23/1956	
L H Jackson et ux	Muskogee Industrial Foundation	WD	09/25/1956	ne-Se-NE	17	1060/140	10/23/1956	Adjacent Property. N of Don Cayo Dr.

Summary of Muskogee County Land Records
Muskogee City/County Port Authority TBA

Township-Range-Section: 15-19-17, Ne/4 SE/4 and se/4 Se/4 NE/4, Address: 10 Tantalum Pl., Muskogee

Grantor	Grantee	Kind of Instrument	Date of instrument	qtr-Qtr-QTR	Sec	Book/Page	Date of Filing	Remarks / REC
Milton V Thieme et ux	Muskogee Industrial Foundation	WD	09/25/1956	e/2-sw-Ne-SE	17	1060/584	11/05/1956	
Georgia E Storts	Muskogee Industrial Foundation	WD	10/04/1956	sw-nw-Ne-SE	17	1060/586	11/05/1956	See also executrix deed 1062/321 sw-Ne-SE less N20' & nw-Ne-SE
Muskogee Industrial Foundation	Tantalum Defense Corporation	WD	11/05/1956	Ne-SE & Se-SE	17	1060/587	11/05/1956	sw-Ne-SE less N20' & nw-Ne-SE
Georgia E Storts	Muskogee Industrial Foundation	Executor's Deed	11/20/1956	nw-sw-Ne-SE	17	1062/321	12/03/1956	sw-Ne-SE less N20' & nw-Ne-SE
Muskogee Industrial Foundation	Tantalum Defense Corporation	Contract	01/20/1957	prt(Ne)-NE & e/2-Se-NE	17	1065/266	01/31/1957	
Tantalum Defense Corporation	City of Muskogee	Easement	05/24/1957	prt(Se)-SE	17	1081/091	12/16/1957	
Tantalum Defense Corporation	State of Okla	Dedication Easement	01/28/1958	prt(Se)-SE	17	1083/469	01/30/1958	
Tantalum Defense Corporation	Fansteel Metallurgical Corporation	QCD	12/09/1958	Ne-SE & Se-SE	17	1104/019	01/19/1959	
Tantalum Defense Corporation	Fansteel Metallurgical Corporation	Assign Contract	12/29/1958	Prt(Ne)-NE & Prt(Se)-NE	17	1104/192	01/26/1959	
Okla Corporation Commission	Public	Cert. Non-Devel	05/27/1960	All Sec. 17	17	1133/195	06/06/1960	

Summary of Muskogee County Land Records
Muskogee City/County Port Authority TBA

Township-Range-Section: 15-19-17, Ne/4 SE/4 and se/4 Se/4 NE/4, Address: 10 Tantalum Pl., Muskogee

Grantor	Grantee	Kind of Instrument	Date of instrument	qtr-Qtr-QTR	Sec	Book/Page	Date of Filing	Remarks / REC
Muskogee Industrial Foundation	Fansteel Metallurgical Corporation	WD	07/20/1961	e/2-sw-Ne-NE & e/2-Se-NE	17	1153/520	07/20/1961	Most Recent as of 12/15/2006
Fansteel Metallurgical Corporation	Muskogee County	WD	07/20/1966	e/2-Ne-NE & sw-Ne-NE & e/2-Se-NE	17	1241/228	07/29/1966	Less land described in 1083/0469
Fansteel Metallurgical Corporation	USA	WD	07/18/1967	prt(e/2)Se-SE	17	1256/527	07/24/1967	
FMRI, Inc	City/County Port of Muskogee	Hwy R/W	01/09/1968	prt(E/2-SE) & prt(e/2-E/2-SE)		1267/031	02/13/1968	Add to R/w for frontage road \$40,000
Fansteel Metallurgical Corporation	OK Natural Gas Co.	R/W	03/13/1968	prt(Ne)-SE & prt(Nw)-SE	17	1269/668	04/12/1968	10' - 20' easement
Fansteel, Inc	OG&E	Easement	07/05/1968	prt(w/2)-Ne-SE & prt(w/2)-Se-SE	17	1273/502	07/11/1968	
Fansteel, Inc	OK Natural Gas Co.	R/W	07/03/1968	prt(SE)	17	1274/084	07/19/1968	
Fansteel, Inc	Muskogee City-County Port Authority	Easement	08/22/1968	w10' of E26.5' of S200' of N760.60' & Strip 33.0' SE of Se-NE	17	1278/421	10/31/1968	
State of Okla Highway Dept	Fansteel Metallurgical Corporation	Journal Entry	06/16/1969	e/2-Ne-NE & e/2-Se-NE & Se-SE	17	1291/460	08/27/1969	
Fourth National Bank of Tulsa	Muskogee Port Authority	Rel Mtg	07/19/1989	prt(Ne)-NE & prt(Se)-NE	17	2007/002	07/24/1989	
Fansteel, Inc	NRC, Inc	L	12/15/1989	prt(Ne)-NE & prt(Se)-NE	17	2024/188	12/22/1989	

Summary of Muskogee County Land Records
Muskogee City/County Port Authority TBA

Township-Range-Section: 15-19-17. Ne/4 SE/4 and se/4 SE/4 NE/4, Address: 10 Tantalum Pl., Muskogee

Grantor	Grantee	Kind of Instrument	Date of instrument	qtr-Qtr-QTR	Sec	Book/Page	Date of Filing	Remarks / REC
OneOK, Inc	New ONG Transmission, Inc	Assign Easement	08/30/1995	prt(SE)	17	2347/394	09/15/1995	Sec. 17. Also prt SW/4 Sec 16. See 1274/084
OneOK, Inc	ONG Transmission	Assign Easement	08/30/1995	prt(SW)	16	2374/394	09/15/1995	Sec. 16. See entry in Sec 17. See 1274/084
Muskogee City/County Port Authority	OG&E	Easement	03/15/1999	Prt(NW)	16	2637/136	05/21/1999	
Fansteel, Inc	Muskogee City-County Port Authority	WD	06/17/1999	prt(NE) & prt(SE)	17	2645/140	06/21/1999	Part NW Property Area. Most Recent as of 12/15/2006
Fansteel, Inc	Muskogee City-County Port Authority	WD	06/17/1999	prt(NE) & prt(SE)	17	2645/1699	06/21/1999	
Fansteel, Inc	FMRI, Inc	Special WD	02/23/2004		17	3213/439	02/24/2004	Parcel N of Pond 3 plus Bankruptcy Papers
FMRI, Inc	OG&E	Easement	06/20/2004	prt(Sw)-SE & prt(Se)-SE	17	3289/182	08/25/2004	
FMRI, Inc	OG&E	Easement	06/22/2004	prt(Ne)-SE	17	9385/227	08/25/2004	Easement for Lines
Fansteel Metallurgical Corporation	Fansteel, Inc	Cert/AME	05/07/1968		17	3213/481	02/24/2004	Name change Cert of Amendment of Cert. of Incorp (3/13/1917) orig. Pfanstiehl Co.Inc. (to 1918) Fansteel Products Co. (to 1935) Fansteel Metallurgical Corp.

Appendix C

Site Photographs

- Grounds
- Building 4: Guard House
- Building 2: Former Sintering Building:
Current Tenant: AI International
- Building 3: Former Electron Beam Building:
Current Tenant: Global Machine Co.
- Electrical Substation
- Building 1: Former Service Building:
Current Tenant: AI International
- Building 6: Metal Storage Building
Current Use: Air Compressors



Northwest Property Area seen from N 43rd St. E



Tantalum Place Entrance to Northwest Property Area



**Power Line Cut at south end of Property, looking east.
Note drainage swale in foreground, Service Building (center)
and Sodium Reduction Building in background.**



Guard House (Bldg No. 4) & Entrance Gate to Northwest Property Area & FMRI Facility



Electrical Substation & Sintering Building, from North



Sintering Building from the Northwest, showing cooling tower on roof



North side of Sintering Building, showing exhaust fan, valve box and possible floor drain



North side of Sintering Building, looking west, showing above-ground line leading off to west.



Shut-off valve on aboveground line at northwest corner of Sintering Building



South side of Sintering Building, showing exhaust vents



Sintering Building, east doors, showing drums and sacks of chemicals stored inside (9/27/2005, subsequently removed)



Sintering Building, south end, showing drums and super sacks of chemicals stored inside (9/27/2005, subsequently removed)



Drums and sacks of chemicals stored inside Sintering Building, east end (9/27/2005, subsequently removed)



Drums and sacks of chemicals stored inside Sintering Building, east end looking west (9/27/2005, subsequently removed)



Drums and sacks of chemicals, including liquid dispenser drum, stored inside Sintering Building, east end looking north (9/27/2005, subsequently removed)



Super Sack of Ammonium Bifluoride stored in Sintering Building, east end (9/27/2005, subsequently removed)



Storage of fabricated parts and supplies (10/27/2006)



Pallet of newly-fabricated steel parts and conveyor near floor drain near east end of Sintering Building (10/27/2006)



Oil stained concrete near pallet of newly-fabricated steel parts



Note remaining super sacks beside wall. (10/27/2006)



Close-up of super sacks, including spent alumina and florice, beside wall. (10/27/2006)



Cooling water pumps, Sintering Building (9/27/2005)



Cooling Water Reservoir with riser pipe and stanchions (10/27/2006)



Smear of Tantalum metal powder on wall of interior room, Sintering Building
(9/27/2005)



Powder still visible on upper part of walls (10/27/2006)



Vacuum Box for working with sintered shapes, west end Sintering Building (9/27/2005, subsequently removed)



Machine tools, west end Sintering Building (9/27/2005, subsequently removed)



West end, Electron Beam Building (9/27/2005)



South end, Electron Beam Building, showing paint overspray on gravel parking lot (10/27/2006)



Inside west side of Electron Beam Building, showing stored equipment and furniture, and steel plates covering cooling water reservoir. (9/27/2005)



Interior of Electron Beam Building, looking south, showing overhead crane. (9/27/2005)



Furniture and equipment stored inside Electron Beam Building. (9/27/2005, subsequently removed)



Furniture and empty drums stored in Electron Beam Building, north end. (9/27/2005, subsequently moved)



Equipment storage and welding operations in north end, Electron Beam Building (10/27/2006)



Machining operations. Note minor oil stain on floor (10/27/2006)



Equipment/materials storage room in Electron Beam Building. Note electrical equipment (transformer?) in background (10/27/2006)



Epoxy painting supplies and waste in Electron Beam Building.
(10/27/2006)



Parts washer and drum of solvent in Electron Beam Building
(10/27/2006)



South side of Service Building, showing woodpile, paint overspray on ground, metal building and dumpster (9/27/2005)



Equipment and electrical power supplies, SE corner of lab, SW corner of Service Building (9/27/2005)



Workbenches with Hoods and vents, SW corner of lab in Service Building (9/27/2005)



Laboratory in Service Building Looking North (9/27/2005)

Vent scrubber and sump for
exhaust from laboratory hoods,
SW corner of Service Building
(10/27/2006)





South end of Electrical Substation, with Service Building in background, from the west (9/27/2005)



North end of Electrical Substation, with Sintering Building in background, seen from the northeast (9/27/2005)



East end, Electron Beam Building with Electrical Substation in foreground (9/27/2005)



West end of Service Building, showing exhaust vent, with electrical substation in foreground (9/27/2005)



Overhead equipment, electrical substation (9/27/2005)



Transformers, breakers, etc., Electrical Substation (9/27/2005)



Transformer, Electrical Substation (9/27/2005)



Transformer, Electrical Substation (9/27/2005)



Building 6, South of Service Building, from southwest (10/27/2006)



Building 6, South of Service Building, from southeast (10/27/2006)



Air Compressors, spilled fluid, Building 6 (10/27/2006)



Air compressor, Building 6 (10/23/2006)

Appendix D - Historical Research Documentation

Aerial Photographs
Fire Insurance Maps
Topographical Maps

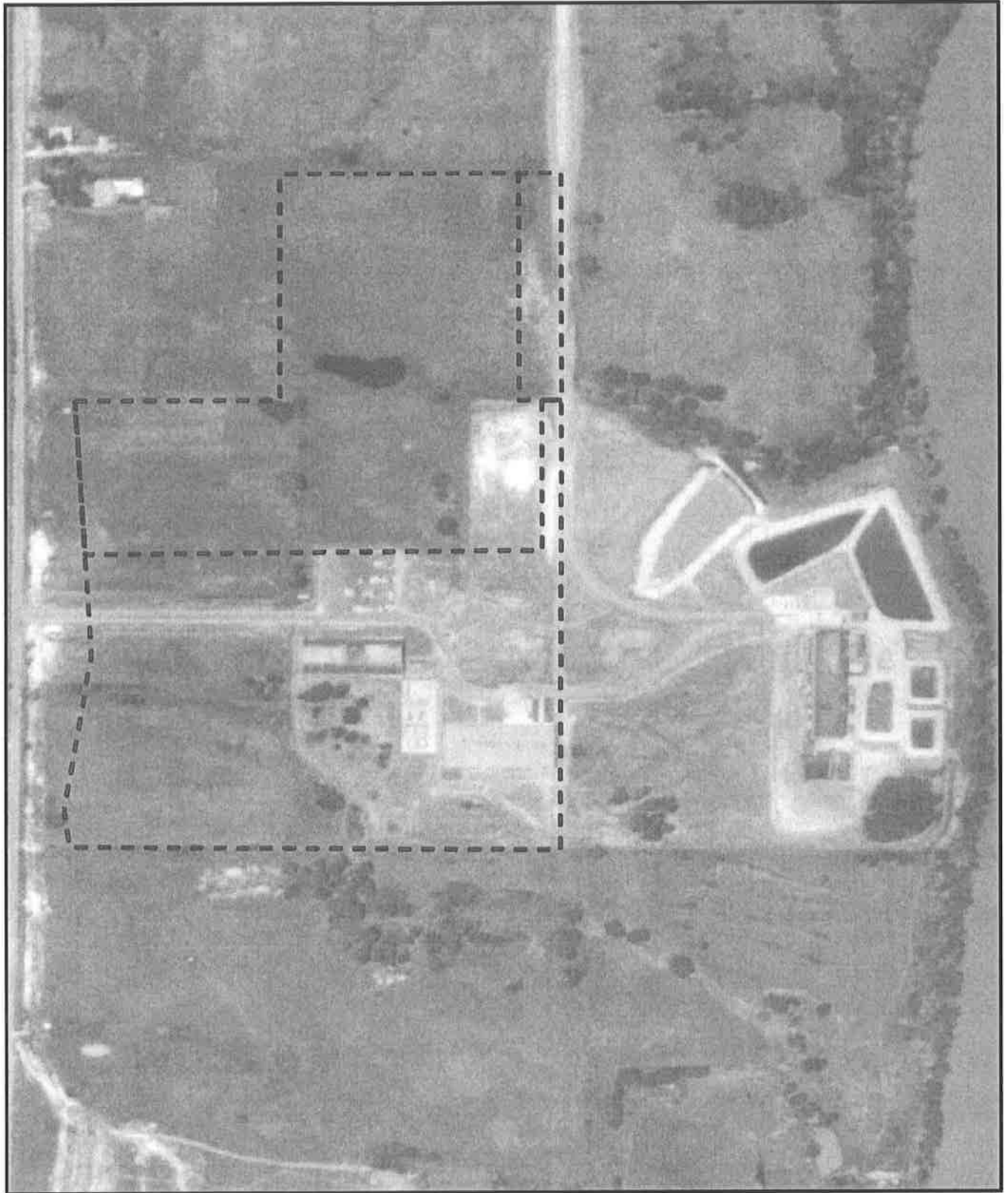
Aerial Photographs

Interpretation of Airphotos

Available airphotos, with stereo coverage except as noted, were:

- 1958 CUE-4V-151, 152, (nominal scale 1:20,000)
- 1964 CUE-1FF-134, 135, (nominal scale 1:20,000)
- 1972 40101-272-39, 40, (nominal scale 1:40,000)
- 1979 40101-179-149, 150, (nominal scale 1:48,000)
- 1980 HAP80-415-140, 141, (nominal scale 1:60,000)
- 1984 HARP-2884-123, 124, (nominal scale 1:60,000)
- 1991 40000-4890-168, 169, (nominal scale 1:40,000)
- 1995 Digital mosaic imagery (not stereo coverage) at 1-meter resolution.
- 2003 NAIP03-08156-135, 136, (1-meter resolution, printed at nominal scale 1:60,000)

The portion of each aerial photograph showing the project area was digitized, enlarged to a scale of approximately 1:2400, and each was then superimposed approximately on a map generated from the ArcView[®] database. Approximate property lines were added based on legal descriptions from the application to NRC for release of the Northwest Property Area from License SMB-911 and from the deed conveying the northern portion of the Northwest Property Area to the Muskogee Port Authority. These are presented in Appendix D. As the original scale of the photographs ranged from 1:20,000 (photographed from lower-altitude flights) to 1:60,000 (photographed from high altitude), the level of detail available in higher-altitude photos after enlargement to 1:2400 was fair to poor.



Legend

 NW Property Area, Approximate



 Feet
0 200 400 600

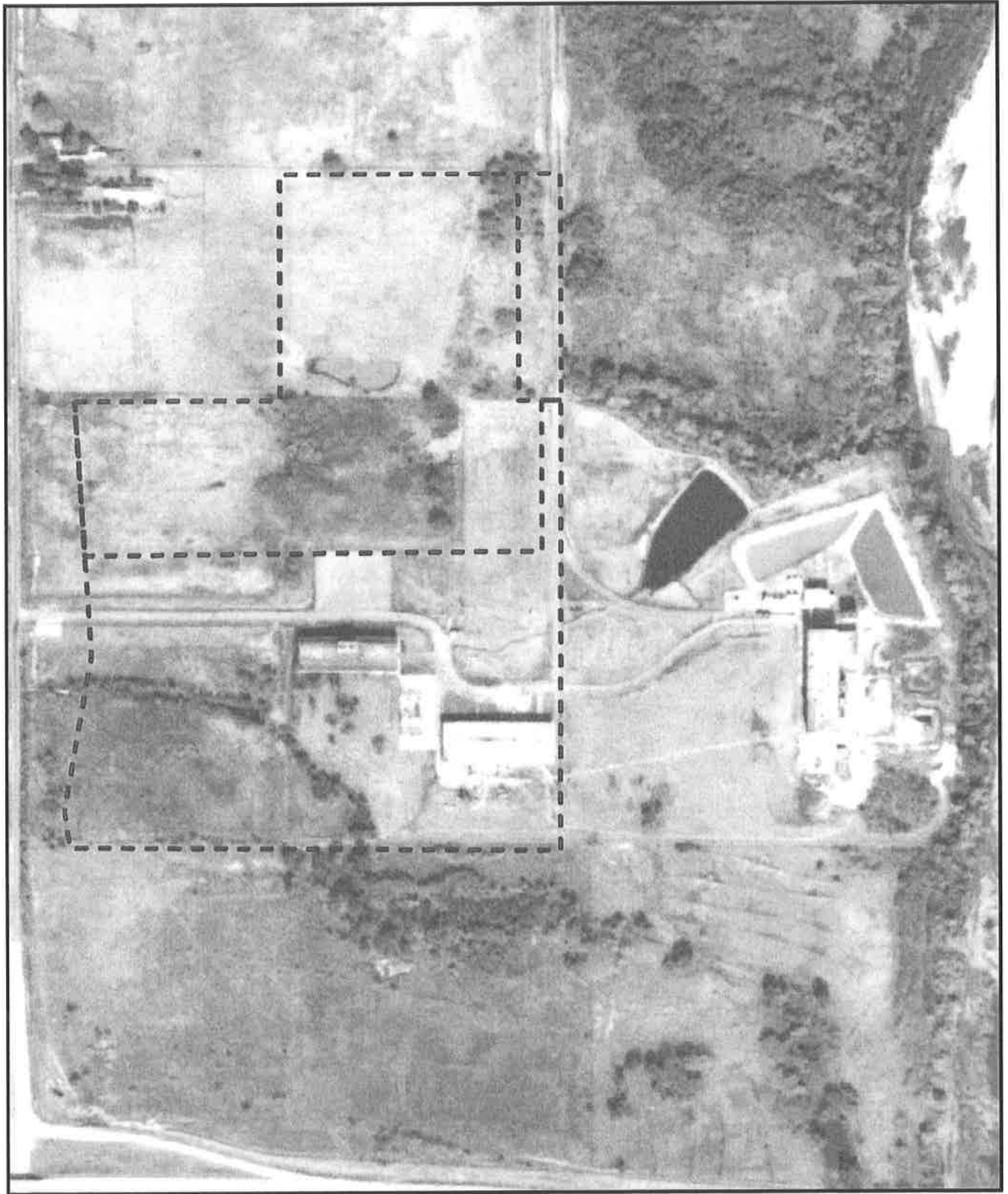
Note: Property Boundary is approximate.
Not to be used for engineering purposes

Source: Aerial Photograph CUE-4V-151, shot 1958-06-26
Natural Resources Conservation Commission

**HISTORIC AERIAL PHOTOGRAPHS
NORTHWEST PROPERTY AREA, FMRI SITE
Targeted Brownfield Assessment
Muskogee City/County Port Authority**

1 6-26-1958 CUE-4V-151, 152, (nominal scale 1:20,000)

In the Southern Northwest Area, these photos show the Sintering Building and the parking lot to the north, the Service Building and the electrical substation to the west. There is a gate-house, apparently in the present position, and there is a structure, possibly a shed, just west of the southwest corner of the parking lot. The perimeter fence from the entrance gate north appears to be in the current location, and the area inside the fence is lighter than outside; to the north the ground appears disturbed. The ground appears disturbed just south of the driveway intersection south of the Service building.



Legend

 NW Property Area, Approximate



 Feet
0 200 400 600

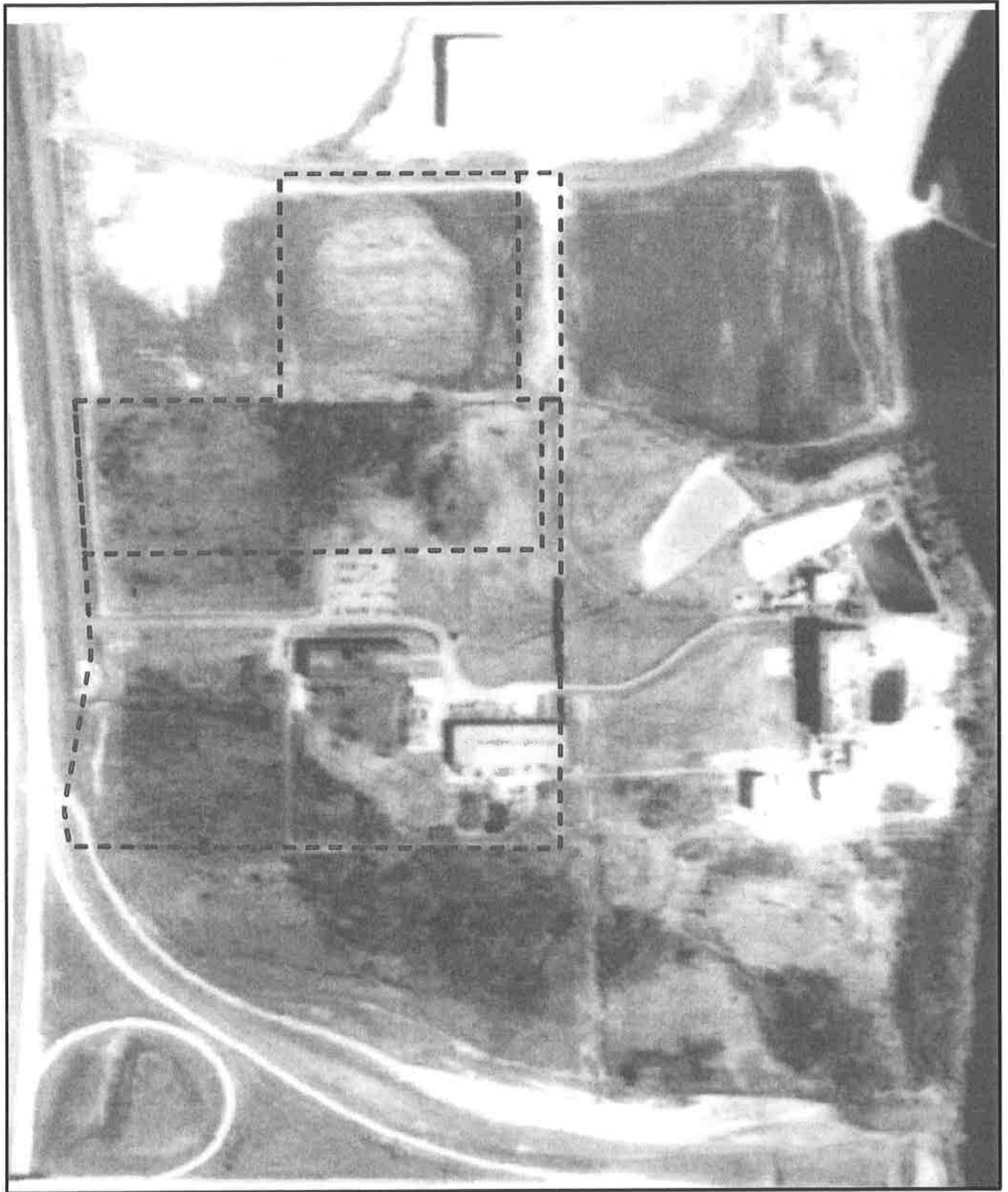
Note: Property Boundary Is approximate.
Not to be used for engineering purposes

Source: Aerial Photograph CUE1FF-135, shot 1964-10-31
Natural Resources Conservation Commission

**HISTORIC AERIAL PHOTOGRAPHS
NORTHWEST PROPERTY AREA, FMRI SITE
Targeted Brownfield Assessment
Muskogee City/County Port Authority**

2 10-31-1964 CUE-1FF-134, 135, (nominal scale 1:20,000)

In the Southern Northwest Area, these photos show the Sintering Building and the parking lot to the north, the Service Building and the electrical substation to the west, as in the 1958 photos. The structure just west of the southwest corner of the parking lot, visible in the 1958 photos, is absent. As in the 1958 photos, the perimeter fence from the entrance gate north appears to be in the current location, and the area inside the fence is lighter than outside; to the north the disturbed ground visible in the 1958 photos shows as a slight depression. Equipment or vehicles are visible south of the driveway south of the southwest corner of the Service Building.



Legend

 NW Property Area, Approximate



 Feet
0 200 400 600

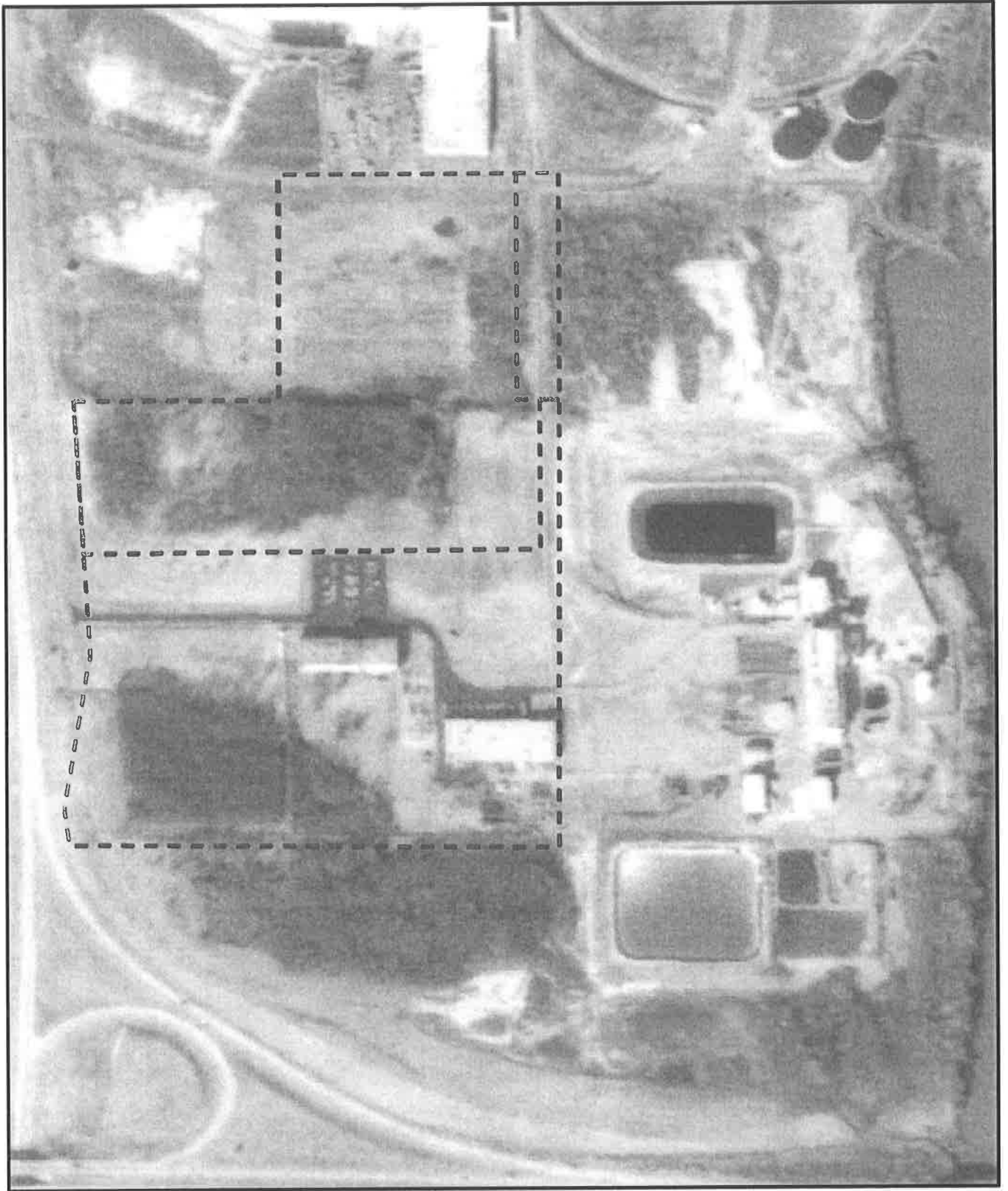
Note: Property Boundary is approximate.
Not to be used for engineering purposes

Source: Aerial Photograph 40101-272-39, shot 1972-04-04
Natural Resources Conservation Commission

**HISTORIC AERIAL PHOTOGRAPHS
NORTHWEST PROPERTY AREA, FMRI SITE
Targeted Brownfield Assessment
Muskogee City/County Port Authority**

3 04-04-1972 40101-272-39, 40, (nominal scale 1:40,000)

In the Southern Northwest Area, these photos show the Sintering Building and the parking lot to the north, the Service Building and the electrical substation to the west, as in the previous photos. The railroad spur to the east end of the Service Building is shown occupied by railcars. Possible bushes or piles of material are visible south of the driveway south of the southwest corner of the Service Building.



Legend

 NW Property Area, Approximate



 Feet
0 200 400 600

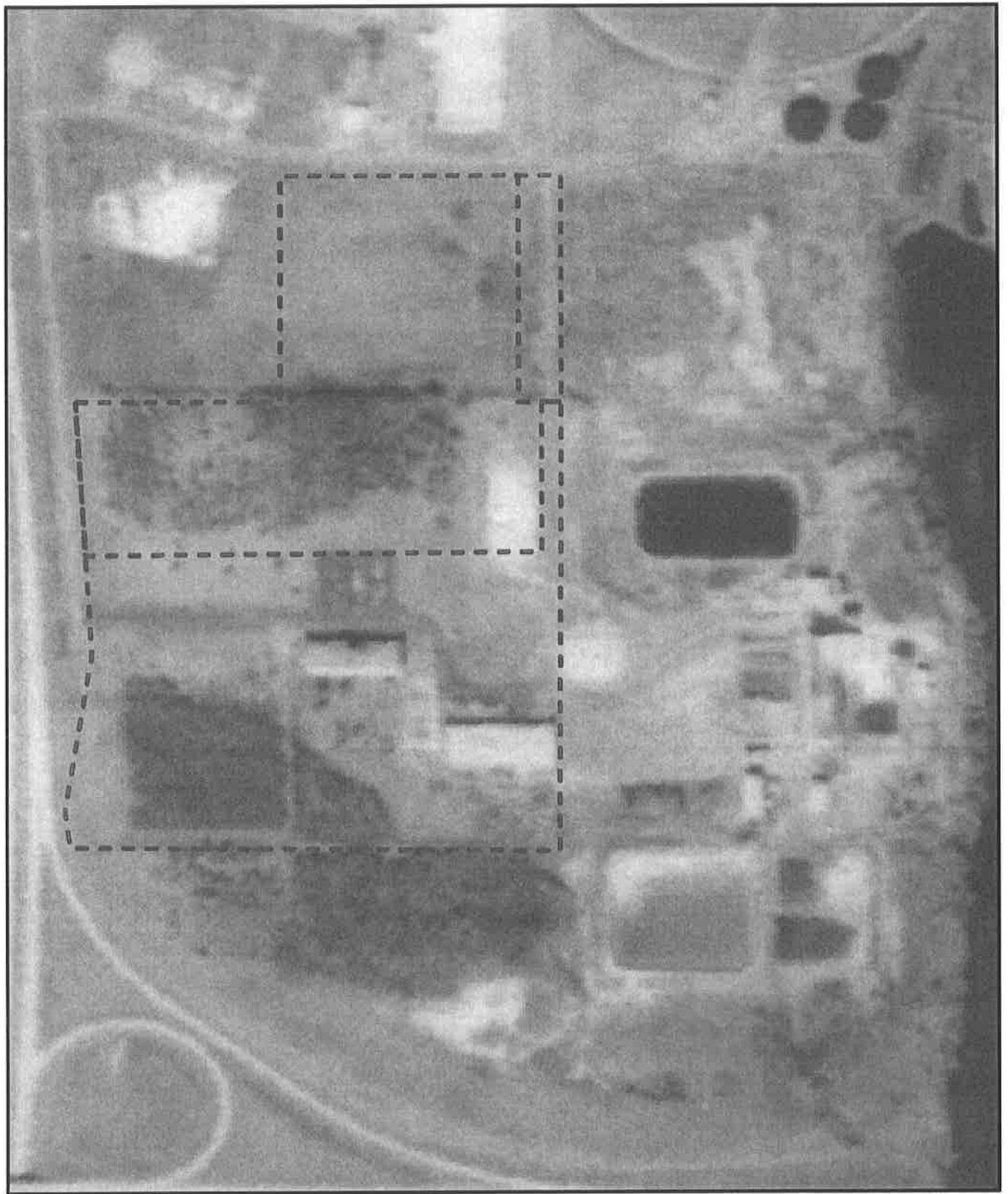
Note: Property Boundary is approximate.
Not to be used for engineering purposes

Source: Aerial Photograph 40101-179-149, shot 1979-11-30
Natural Resources Conservation Commission

**HISTORIC AERIAL PHOTOGRAPHS
NORTHWEST PROPERTY AREA, FMRI SITE
Targeted Brownfield Assessment
Muskogee City/County Port Authority**

4 11-30-1979 40101-179-149, 150, (nominal scale 1:48,000)

In the Southern Northwest Area, these photos show the Sintering Building and the parking lot to the north, the Service Building and the electrical substation to the west, as in the previous photos. Vehicles or equipment are parked on the south side of the driveway, south of the southwest corner of the Service Building and possible bushes or piles of material are visible south of that.



Legend

 NW Property Area, Approximate



 Feet
0 200 400 600

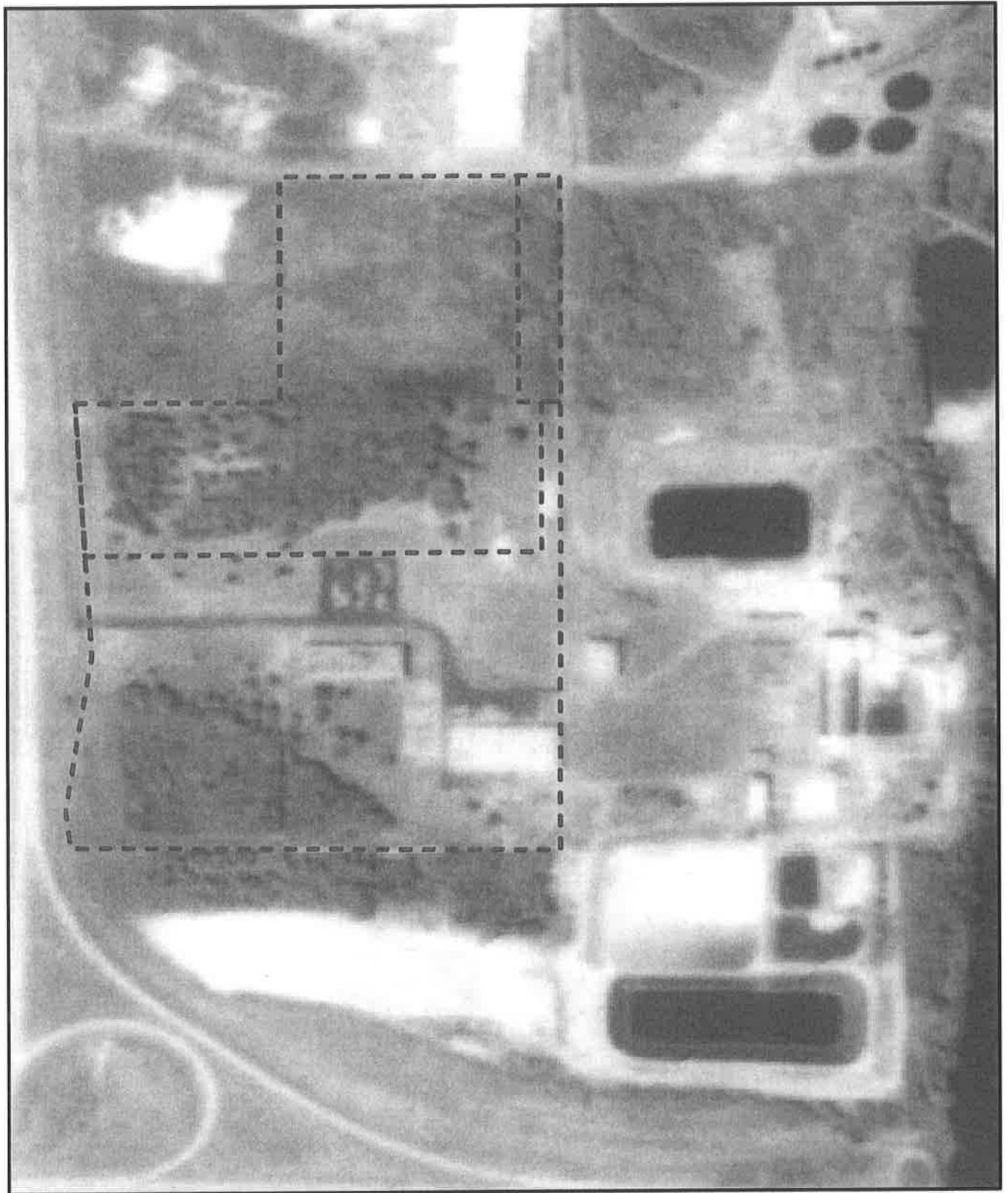
Note: Property Boundary is approximate.
Not to be used for engineering purposes

Source: Aerial Photograph HAP-80-359406-415-141, shot 1981-03-16
Natural Resources Conservation Commission

**HISTORIC AERIAL PHOTOGRAPHS
NORTHWEST PROPERTY AREA, FMRI SITE
Targeted Brownfield Assessment
Muskogee City/County Port Authority**

5 3-16-1981 HAP80-415-140, 141, (nominal scale 1:60,000)

In the Southern Northwest Area, these photos show the Sintering Building and the parking lot to the north, the Service Building and the electrical substation to the west, as in the previous photos. Owing to the higher altitude of the flight, what may be vehicles or equipment on the south side of the driveway, are indistinct south of the southwest corner of the Service Building and possible bushes or piles of material are indistinct south of that. An oval area covering most of the center of the field north of the service building and entrance road, and west of the rail spur and fence, appears to be disturbed (area is lighter, but change in relief could not be distinguished).



Legend

 NW Property Area, Approximate



 Feet
0 200 400 600

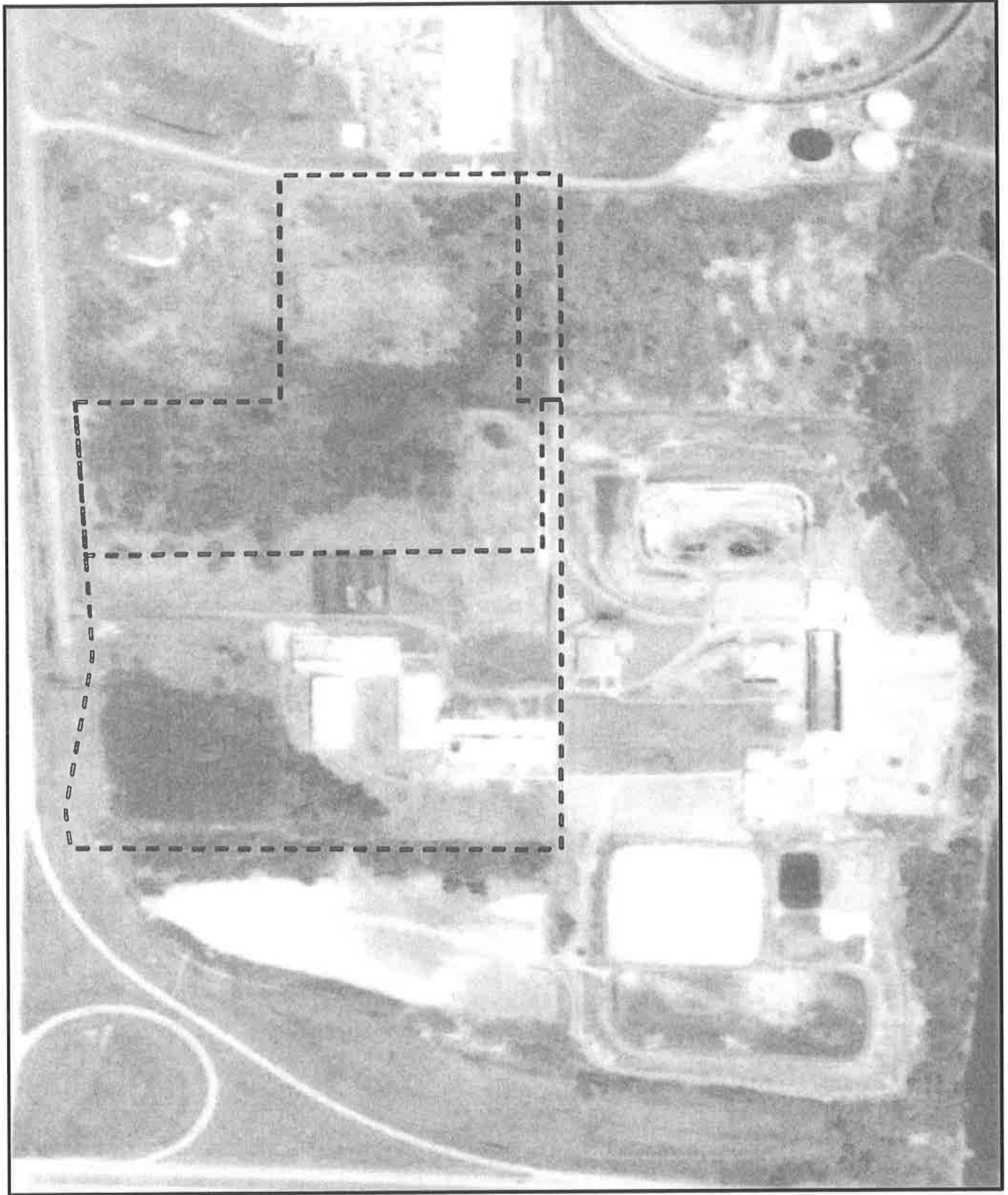
Note: Property Boundary is approximate.
Not to be used for engineering purposes

Source: Aerial Photograph 40000-2884-124, shot 1984-07-20
Natural Resources Conservation Commission

**HISTORIC AERIAL PHOTOGRAPHS
NORTHWEST PROPERTY AREA, FMRI SITE
Targeted Brownfield Assessment
Muskogee City/County Port Authority**

6 7-20-1984 HARP-2884-123, 124, (nominal scale 1:60,000)

In the Southern Northwest Area, these photos show the Sintering Building and the parking lot to the north, the Service Building and the electrical substation to the west, as in the previous photos. Partly owing to the high altitude of the photos, no vehicles or equipment could be distinguished on the south side of the driveway, south of the southwest corner of the Service Building and most of the possible bushes or piles of material visible in previous photos were absent south of that. Approximately a third of the disturbed area seen in the 1981 photo is still visibly disturbed, specifically two smaller disturbed areas east and west of the center.



Legend

 NW Property Area, Approximate

 Feet
0 200 400 600

Note: Property Boundary is approximate.
Not to be used for engineering purposes

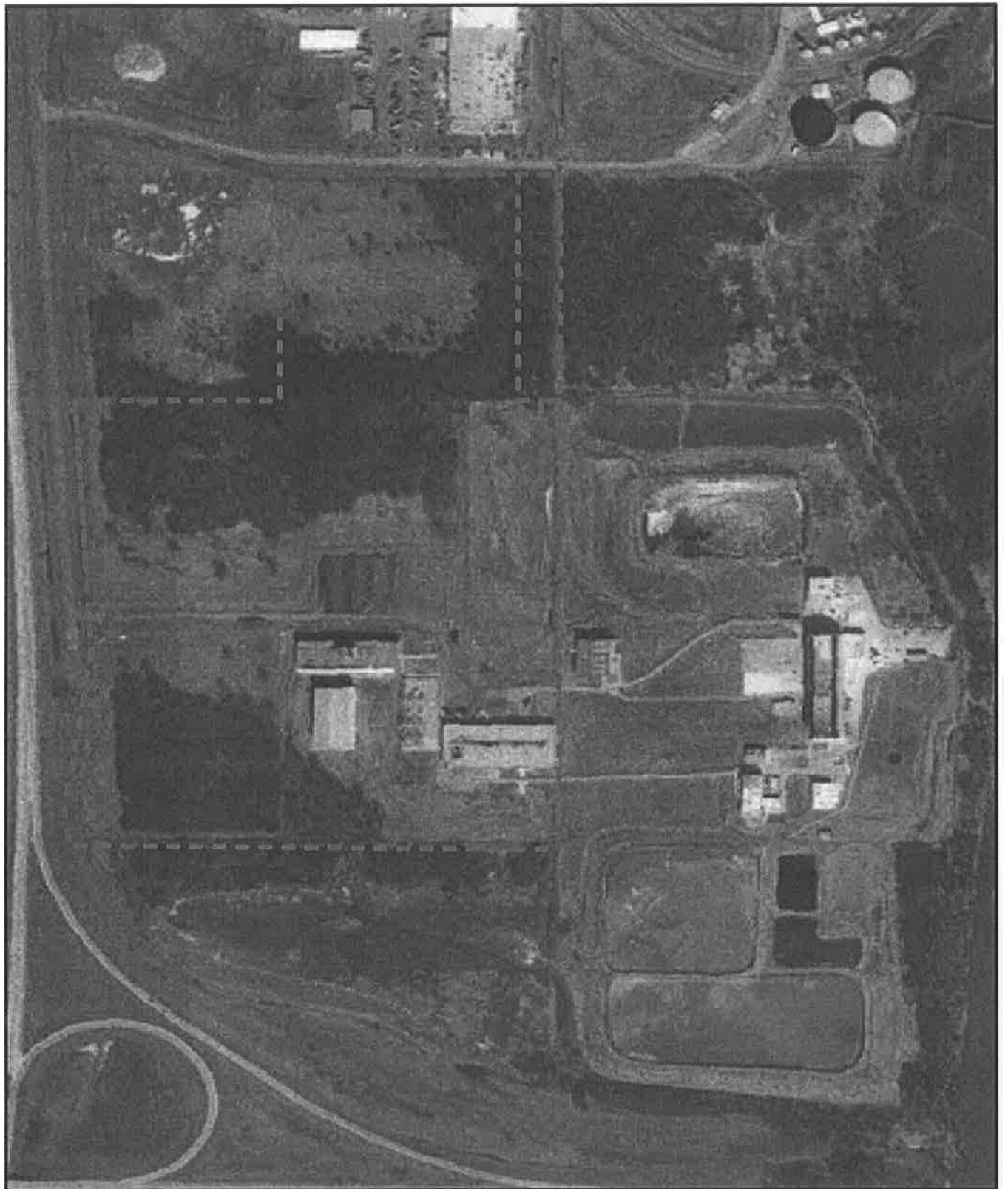


Source: Aerial Photograph USDA-40-4000-4890-No-169, shot 1991-04-15
Natural Resources Conservation Commission

**HISTORIC AERIAL PHOTOGRAPHS
NORTHWEST PROPERTY AREA, FMRI SITE
Targeted Brownfield Assessment
Muskogee City/County Port Authority**

7 4-15-1991 40000-4890-168, 169, (nominal scale 1:40,000)

In the Southern Northwest Area, these photos show the Sintering Building and the parking lot to the north, the Service Building and the electrical substation to the west, as in the previous photos, plus the new Electron Beam Building south of the Sintering Building and west of the electrical substation. What may be a temporary building is visible across the driveway south of the southwest corner of the Service Building. Except for some light areas along the east and west margins, the disturbed area in seen in the 1981 photo appears less disturbed, as if vegetation is growing back. Southeast of the guard shack, across the driveway north of the Service Building' a small area is visible which may be a tree, small shed or piece of equipment.



Legend

 NW Property Area, Approximate



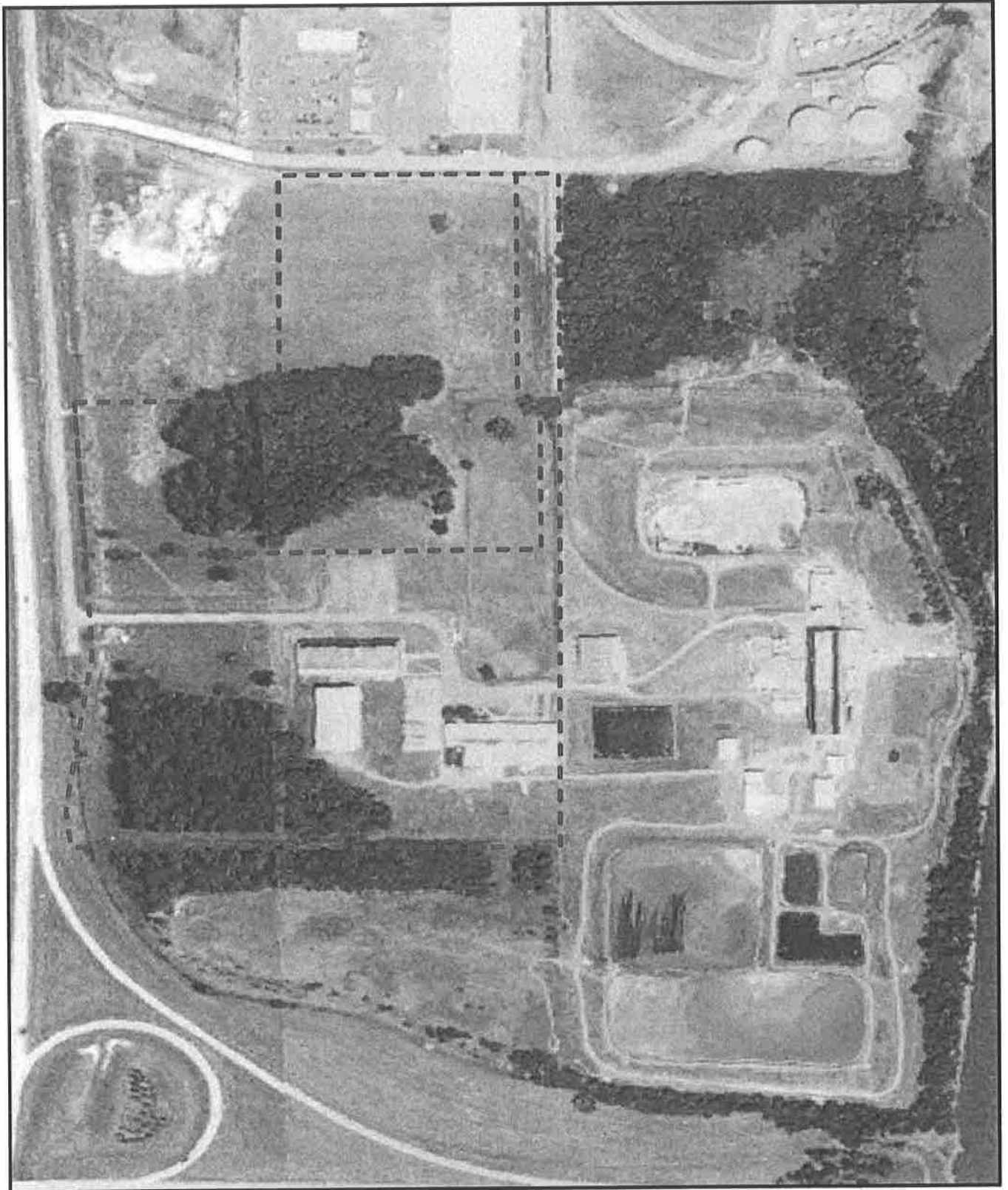
 Feet
0 200 400 600

Note: Property Boundary is approximate.
Not to be used for engineering purposes

Source: Digital Aerial Image, NAPP2 Program, shot 1995
Natural Resources Conservation Commission

**HISTORIC AERIAL PHOTOGRAPHS
NORTHWEST PROPERTY AREA, FMRI SITE
Targeted Brownfield Assessment
Muskogee City/County Port Authority**

8 1995 Digital mosaic imagery (not stereo coverage) at 1-meter resolution
In the Southern Northwest Area, these photos show the Sintering Building and the parking lot to the north, the Service Building, the Electron Beam Building, and the electrical substation to the west, as in the previous photos. The possible temporary building across the driveway south of the southwest corner of the Service Building is not visible. Southeast of the guard shack, across the driveway north of the Service Building is a small dark area that may be a tree, small shed or piece of equipment.



Legend

 NW Property Area, Approximate



 Feet
0 200 400 600

Note: Property Boundary is approximate.
Not to be used for engineering purposes

Source: Digital Aerial Image USDA-FSA-40-NAIP03-08156-136, shot 2003-07-16
Natural Resources Conservation Commission

**HISTORIC AERIAL PHOTOGRAPHS
NORTHWEST PROPERTY AREA, FMRI SITE
Targeted Brownfield Assessment
Muskogee City/County Port Authority**

9 07-16-2003 NAIP03-08156-135, 136, (1-meter resolution, printed at nominal scale 1:60,000)

In the Southern Northwest Area, these photos show the Sintering Building and the parking lot to the north, the Service Building, the Electron Beam Building, and the electrical substation to the west, as in the previous photos. Southeast of the guard shack, across the driveway north of the Service Building is a small dark area that may be a tree, small shed or piece of equipment. Considering the 1-meter resolution of the photograph, the disturbance observed in the 1981 and 1984 photos in the field north of the Service Building could not be seen.

Fire Insurance Maps

Sanborn Fire Insurance Maps were not available for the Property Area.

Topographical Maps

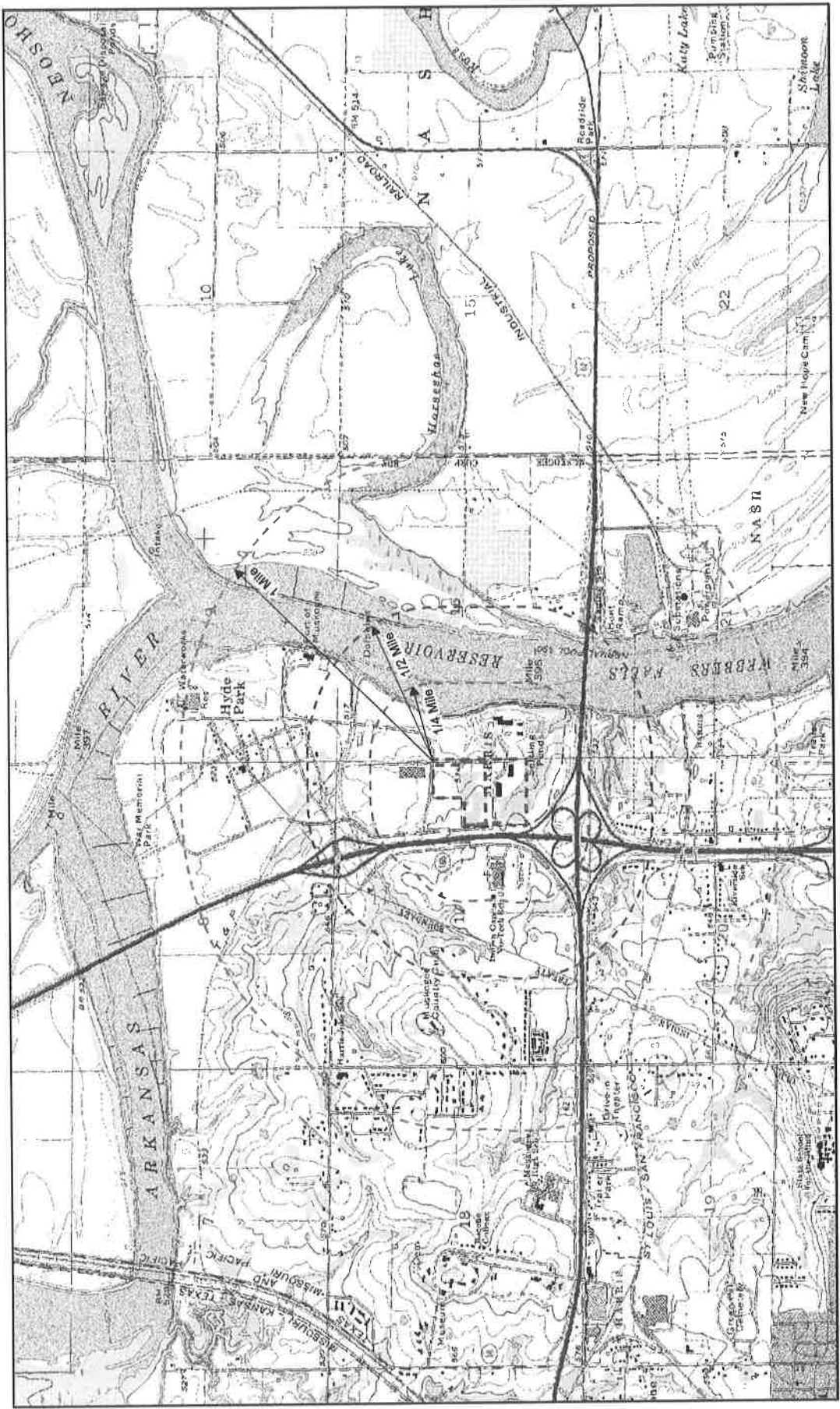
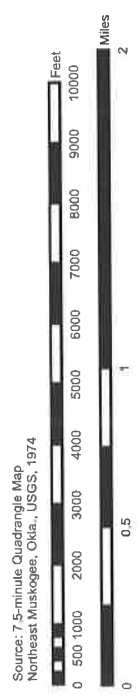


Figure 1
 LOCATION MAP
 NORTHWEST PROPERTY AREA, FMRI SITE
 Targeted Brownfield Assessment
 Muskogee City/County Port Authority

Legend
 --- NW Property Area, Approximate

Note: Property Boundary is approximate.
 Not to be used for engineering purposes

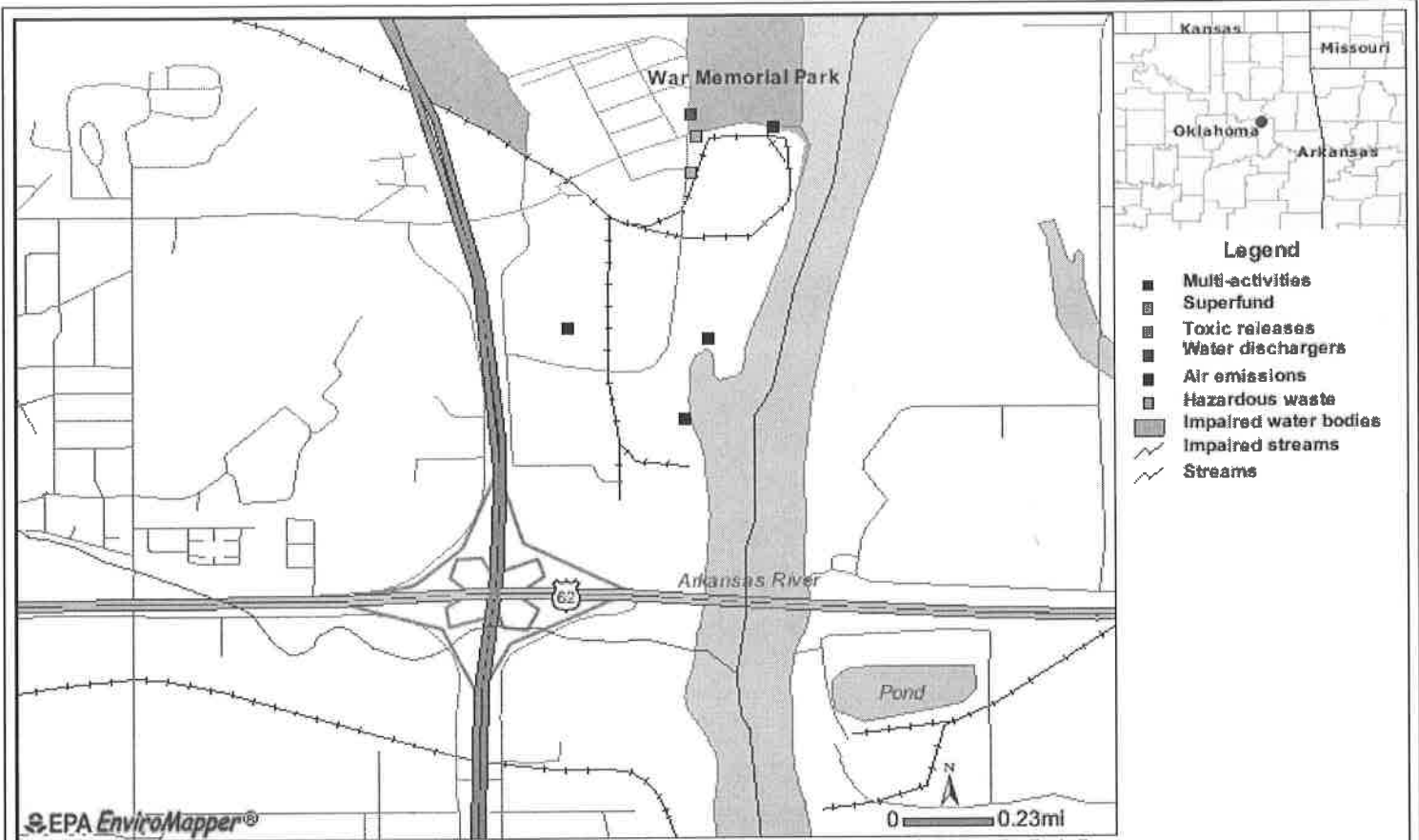


Source: 7.5-minute Quadrangle Map
 Northeast Muskogee, Okla., USGS, 1974

Appendix E

Regulatory Records Documentation

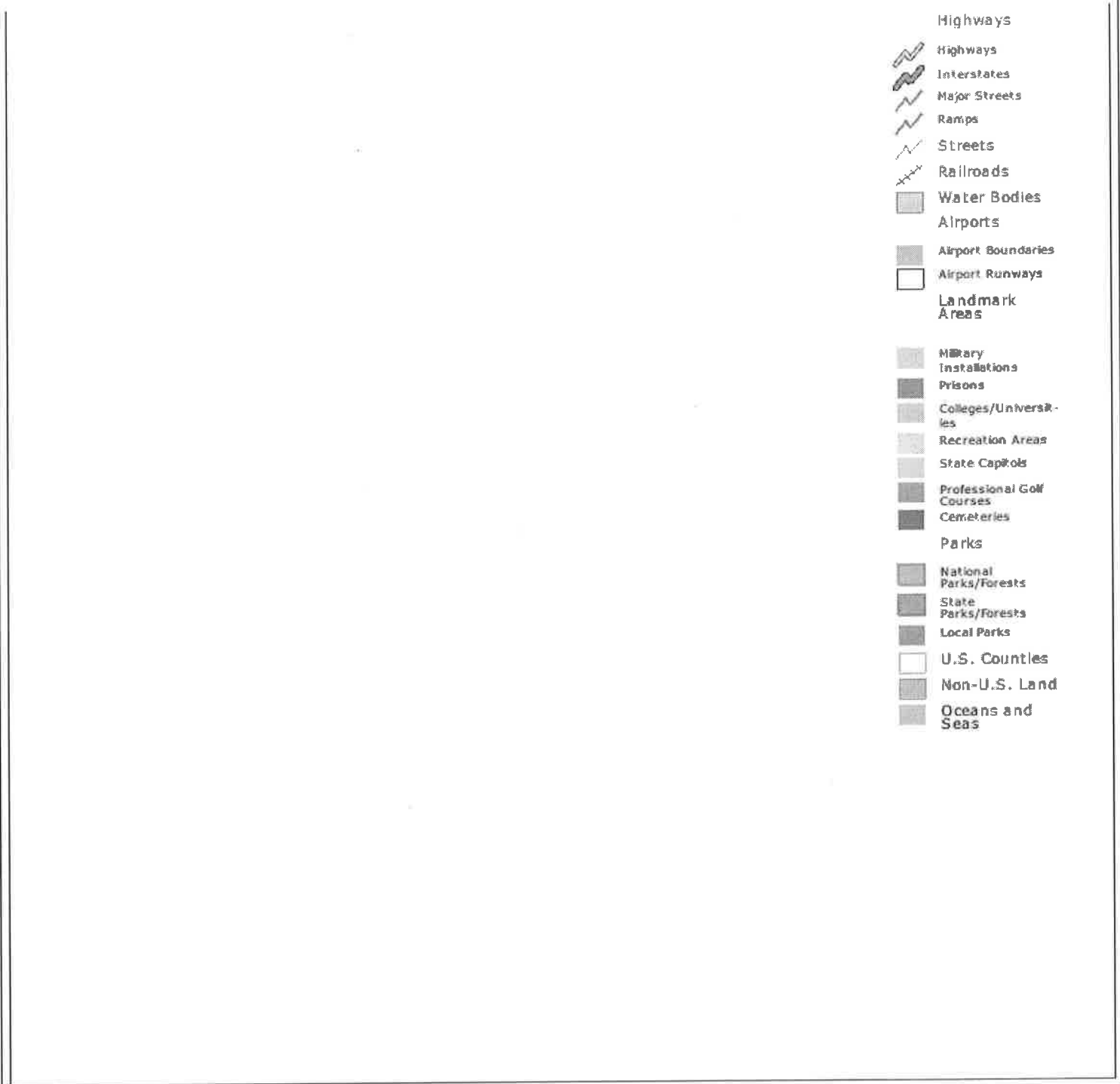
- Map showing EPA Regulated Facilities near the Port of Muskogee
- Airphoto showing EPA Regulated Facilities near the Port of Muskogee
- RCRAInfo Query Results (Sites potentially subject to Corrective Action under 3004(u)/(v))
- RCRAInfo Query Results (Sites potentially subject to Corrective Action under Discretionary Authority)
- Corrective Action Site Progress Profile – Zapata Industries
- Waste Process Info – Zapata Industries
- RCRAInfo Facility Detail Report – Fansteel Inc.
- CERCLIS List of Active Sites
- CERCLIS List of Archived Sites
- CERCLIS Entry for Fansteel Metals
- RCRA Notifiers Listing – Muskogee OK
- RCRA Notifiers (Legend)
- OWRB Map – Registered Wells within 1 mile of FMRI
- OWRB List - Registered Wells within 1 mile of FMRI
- US NRC Markup of Fansteel/FMRI License releasing NW Property Area
- Map and Legal Description of Northwest Property Area
- Deed and Legal Description of Portion of Northwest Property Area conveyed to Muskogee City/County Port Authority
- NRCS Soil Survey of Port of Muskogee Area, Muskogee County, Oklahoma
- List of Oklahoma Corporation-Registered Wells in Sec 17-T15N-R19E1
- Approximate Locations of Oklahoma Corporation-Registered Wells in Sec 17-T15N-R19E1
- Details of Oklahoma Corporation-Registered Wells in Sec 17-T15N-R19E1



EPA-Regulated Facilities near Port of Muskogee



EPA does not guarantee the accuracy, completeness, or timeliness of the information shown, and shall not be liable for any loss or injury resulting from reliance upon the information shown.



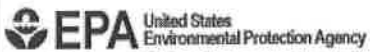
- Highways
- Highways
- Interstates
- Major Streets
- Ramps
- Streets
- Railroads
- Water Bodies
- Airports
- Airport Boundaries
- Airport Runways
- Landmark Areas
- Military Installations
- Prisons
- Colleges/Universities
- Recreation Areas
- State Capitols
- Professional Golf Courses
- Cemeteries
- Parks
- National Parks/Forests
- State Parks/Forests
- Local Parks
- U.S. Counties
- Non-U.S. Land
- Oceans and Seas

600 x 450 800 x 600 Locator Map



- Legend**
- Multi-activities
 - Superfund
 - Toxic releases
 - Water dischargers
 - Air emissions
 - Hazardous waste
 - Impaired water bodies
 - ~ Impaired streams
 - ~ Streams
 - Aerial photo (from TerraServer)

EPA-Regulated Facilities near Port of Muskogee



EPA does not guarantee the accuracy, completeness, or timeliness of the information shown, and shall not be liable for any loss or injury resulting from reliance upon the information shown.



U.S. Environmental Protection Agency

Resource Conservation and Recovery Act (RCRAInfo)

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Query Results



Consolidated facility information (from multiple EPA systems) was searched to select facilities

ZIP Code: 74403
 City Name: muskogee
 State Abbreviation: ok

Results are based on data extracted on JUN-06-2006

Note: Click on the underlined CORPORATE LINK value for links to that company's environmental web pages. Click on the underlined MAPPING INFO value to obtain mapping information for the facility.

[Go To Bottom Of The Page](#)

HANDLER NAME:	ACME ENGINEERING & MANUFACTURING CORPORATION	HANDLER ID:	OKD007224280
STREET:	1820 NORTH YORK STREET	FACILITY INFORMATION:	View Facility Information
CITY:	MUSKOGEE	CORPORATE LINK:	No
STATE:	OK	COUNTY:	MUSKOGEE
ZIP CODE:	74403	MAPPING INFO:	MAP
EPA REGION:	6		

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
BRETT LONERGAN	1820 N YORK	MUSKOGEE	OK	744031451	9186827791	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
33341	Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing

HANDLER NAME:	ACME ENGINEERING APD DIV	HANDLER ID:	OK0000228072
STREET:	2631 PORT PL	FACILITY INFORMATION:	View Facility Information
CITY:	MUSKOGEE	CORPORATE LINK:	No
STATE:	OK	COUNTY:	MUSKOGEE
ZIP CODE:	74403	MAPPING INFO:	MAP
EPA REGION:	6		

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
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CHARLES FERGUSON	PO BOX 978	MUSKOGEE	OK	74402	9186827791	Public
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No NAICS Codes are available for the facility listed above.

HANDLER NAME: ADVANCE WARNINGS HANDLER ID: OKR000008623
 STREET: 2500 S 32ND ST FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
GARY LAXTON	PO BOX 1911	MUSKOGEE	OK	74401	9186820039	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: AMERICAN FOUNDRY GR AMERICAN ALLOY II HANDLER ID: OKR000007021
 STREET: 612 S 45TH ST E FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
PHILLIP DURLAND	612 S 45TH E	MUSKOGEE	OK	74402	9186835683	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: ARCHER CLNRS MUSKOG/625 N YORK (ARCHERS HANDLER ID: OKD981148273
 STREET: 625 N. YORK FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOHN-G ARCHER	625 N YORK	MUSKOGEE	OK	74403	9186875531	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: COBURN OPTICAL INDUSTRIES HANDLER ID: OKD987070422
 STREET: 2012 ANDERSON DR FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DOUG HENDRICKS	PO BOX 627	MUSKOGEE	OK	74402	9186834521	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: COURTESY CHEV GEO HONDA HANDLER ID: OK0000623256
 STREET: 104 KAAD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JAMES POTETT	PO BOX 2729	MUSKOGEE	OK	74401	9186830311	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: D & O BODY SHOP HANDLER ID: OK0000716720
 STREET: 200 E MARTIN LUTHER KING FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DANNY CUOZZO	200 E MARTIN LUTHER KING	MUSKOGEE	OK	74403	9186830045	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME:	FANSTEEL INCORPORATED MUSKOGEE FURNACE FAC	HANDLER ID:	OKD007221831
STREET:	10 TANTALUM PLACE	FACILITY INFORMATION:	View Facility Information
CITY:	MUSKOGEE	CORPORATE LINK:	No
STATE:	OK	COUNTY:	MUSKOGEE
ZIP CODE:	74403	MAPPING INFO:	MAP
EPA REGION:	6		

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JAMES-A PIERRET	10 TANTALUM PLACE	MUSKOGEE	OK	74401	9186876303	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
331419	Primary Smelting and Refining of Nonferrous Metal (except Copper and Aluminum)

HANDLER NAME:	FORMER WAL-MART STORE # 130	HANDLER ID:	OKD987098159
STREET:	2412 E SHAWNEE	FACILITY INFORMATION:	View Facility Information
CITY:	MUSKOGEE	CORPORATE LINK:	No
STATE:	OK	COUNTY:	MUSKOGEE
ZIP CODE:	74403	MAPPING INFO:	MAP
EPA REGION:	6		

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
MIKE EBERT	SW 8TH ST	BENTONVILLE	AR	72716	9186870058	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME:	FORT JAMES OPERATING COMPANY	HANDLER ID:	OKD072414741
STREET:	4901 CHANDLER RD.	FACILITY INFORMATION:	View Facility Information
CITY:	MUSKOGEE	CORPORATE LINK:	No

STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DUSTIN GIVENS	4901 E CHANDLER RD	MUSKOGEE	OK	744034909	9186837671	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
32212	Paper Mills

HANDLER NAME: FRONTIER TERMINAL HANDLER ID: OKD987082641
 STREET: N 48TH AND CHANDLER RD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DAVID PUNNETT	PO BOX 701497	TULSA	OK	74107	9184967770	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: GRANT PRIDECO LP/MUSKOGEE PLT HANDLER ID: OKD102424413
 STREET: 3800 PORT PLACE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOY STAFFORD	3800 PORT PLACE	MUSKOGEE	OK	74403	9187814512	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
31-33	Manufacturing

HANDLER NAME: MUSKOGEE BRIDGE CO HANDLER ID: OKD049070147
 STREET: THREE MILE RD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
CURTIS SMITH	PO BOX 798	MUSKOGEE	OK	74402	9186836151	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: OWENS BROCKWAY GLASS CONTAINER INCORPORATED HANDLER ID: OKD007222805
 STREET: YORK & SHAWNEE STREET FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
MIKE BENNETT	P O BOX 8	MUSKOGEE	OK	74403	9186844509	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
327213	Glass Container Manufacturing

HANDLER NAME: PENSKE AUTO CENTER HANDLER ID: OKR000001339
 STREET: 4 E SHAWNEE ST STE B FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DAVID TATUM	3270 W BIG BEAVER RD	TROY	MI	480843163	8106435171	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: SCHRADER-BRIDGEPORT INTL HANDLER ID: OKD987072048
 STREET: 500 SE 48TH STREET FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DAVID HARDING	PO BOX 769	MUSKOGEE	OK	74402	9186865062	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: UNION METAL CORP HANDLER ID: OKD007219165
 STREET: 420 FRANKFORT AVENUE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JERRY EMANUEL	FRANKFORT AVE	MUSKOGEE	OK	744036401	9186835005	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing
332312	Fabricated Structural Metal Manufacturing
335129	Other Lighting Equipment Manufacturing
33991	Jewelry and Silverware Manufacturing

HANDLER NAME: USARC ALTON M. ASHWORTH HANDLER ID: OK1210022504
 STREET: 1806 N YORK ST FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JAMES WHEELER	CAMP ROBINSON RD	NORTH LITTLE ROCK	AR	721182205	8005011493 7992	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: WAL-MART SUPERCENTER # 130 HANDLER ID: OKR000020024
 STREET: 1000 W SHAWNEE ST FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
PAULINE LASSITER	SW 8TH ST	BENTONVILLE	AR	727160500	4792042055	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
45291	Warehouse Clubs and Supercenters

HANDLER NAME: WATERLOO INDUSTRIES INCORPORATED HANDLER ID: OKR000001891
 STREET: 300 S. 45TH ST. E. FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
MATTHEW J SOMMERS	E 4TH ST	WATERLOO	IA	50703	8708924586 5441	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
332439	Other Metal Container Manufacturing
332999	All Other Miscellaneous Fabricated Metal Product Manufacturing

HANDLER NAME: ZAPATA INDUSTRIES INC HANDLER ID: OKD990751059
 STREET: 4400 DON CAYO DR. FACILITY INFORMATION: [View Facility Information](#)

CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: MAP
 EPA REGION: 6 RCRA Corrective Action: **PROFILE**

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
HARRY O MELLON	DON CAYO DRIVE	MUSKOGEE	OK	74403	9186834577 149	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
332115	Crown and Closure Manufacturing

[Go To Top Of The Page](#)

Total Number of Facilities Displayed: 22

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Last updated on Tuesday, December 19th, 2006
http://oaspub.epa.gov/enviro/fii_master.fii_retrieve



U.S. Environmental Protection Agency

Resource Conservation and Recovery Act (RCRAInfo)

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 EPA Home > Envirofacts > RCRAInfo > Query Results

Query Results



Consolidated facility information (from multiple EPA systems) was searched to select facilities

ZIP Code: 74401
City Name: muskogee
State Abbreviation: ok

Results are based on data extracted on JUN-06-2006

Note: Click on the underlined CORPORATE LINK value for links to that company's environmental web pages. Click on the underlined MAPPING INFO value to obtain mapping information for the facility.

[Go To Bottom Of The Page](#)

HANDLER NAME: ALL STATE ELECTRIC MOTOR **HANDLER ID:** OKD987068897
STREET: 1730 N 11TH **FACILITY INFORMATION:** [View Facility Information](#)
CITY: MUSKOGEE **CORPORATE LINK:** No
STATE: OK **COUNTY:** MUSKOGEE
ZIP CODE: 74401 **MAPPING INFO:** [MAP](#)
EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
ED RIVARO	1730 N 11TH	MUSKOGEE	OK	74401	9186836581	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: ARCHER CLNRS MUSKOG/700 W OKMULGEE (ARCH **HANDLER ID:** OKD032990202
STREET: 700 W. OKMULGEE **FACILITY INFORMATION:** [View Facility Information](#)
CITY: MUSKOGEE **CORPORATE LINK:** No
STATE: OK **COUNTY:** MUSKOGEE
ZIP CODE: 74401 **MAPPING INFO:** [MAP](#)
EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOHN-G ARCHER	700 W OKMULGEE	MUSKOGEE	OK	74401	9186875531	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: ARKHOLA MUSKOGEE GLASS SAND PLANT HANDLER ID: OKD061636296
 STREET: HIGHWAY 69 NT & ARKANSAS RIVER FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOHN SULGER	PO BOX 1401	MUSKOGEE	OK	74401	4797854271	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
212322	Industrial Sand Mining

HANDLER NAME: BJ TITAN SVCS HANDLER ID: OKD980748826
 STREET: 1341 W SHAWNEE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JIM BENNETT	PO BOX 1555	MUSKOGEE	OK	74401	9186870884	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: BORAL BRICKS INCORPORATED MUSKOGEE PLANT HANDLER ID: OKR000014886
 STREET: 3101 WEST 53RD STREET SOUTH FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
CHRISTOPHER SPRALIDY	3101 W 53RD STREET S	MUSKOGEE	OK	74401	9186876734	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: BREWSTERS PAINT & BO/SH HANDLER ID: OKD981903719
 STREET: FURN MOUNTAIN RD 4.5MI W OF 69 FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
KEITH RAY BREWSTER	RT 3 BOX 318A	MUSKOGEE	OK	74401	9186826390	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: C & K EQUIPMENT HANDLER ID: OKD198951634
 STREET: 1215 S 32ND FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
FRED BIBBER	1215 S 32ND	MUSKOGEE	OK	74401	9186831536	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: CHURCHILL TRUCK LINES INC HANDLER ID: OKD987087061
 STREET: 520 S B ST FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DAVID EDWARDS	520 S B ST	MUSKOGEE	OK	74401	8166461590	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: CONDLEY SERVICE STATION HANDLER ID: OKD032991457
 STREET: 129 EAST SIDE BLVD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
THURMAN CONDLEY	129 EAST SIDE BLVD	MUSKOGEE	OK	74401		Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: CONTAINER CORPORATION OF AMERICA HANDLER ID: OKD007227200
 STREET: SHAWNEE & RIDGE ROAD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DUANE MASON	P O BOX 858	MUSKOGEE	OK	74401	9186877503	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: CORNING GLASS HANDLER ID: OKD007227192
 STREET: 1500 SUMMIT STREET FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)

EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
MELSEE JONES	1500 SUMMIT	MUSKOGEE	OK	74401	6079747846	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
327212	Other Pressed and Blown Glass and Glassware Manufacturing

HANDLER NAME: COURTESY MOTORS INC HANDLER ID: OKD981908908
 STREET: 3143 N 32ND FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOHN SIMON	3143 N 32ND	MUSKOGEE	OK	74401	9186830311	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: DAL-ITALIA HANDLER ID: OKR000019398
 STREET: 3801 DAL-TILE RD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOE GENET	DAL TILE RD	MUSKOGEE	OK	74401	9186834043	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
327122	Ceramic Wall and Floor Tile Manufacturing

HANDLER NAME: DANIEL CONSTRUCTION COMPANY HANDLER ID: OKD080582430

STREET: 900 E. 56TH STREET FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
STEVE GREENE	P.O. BOX 2549	MUSKOGEE	OK	74401	9186831504	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: FASHION CLEANERS HANDLER ID: OKD032996456
 STREET: 711 EASTSIDE BLVD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOHN PANGBURN	711 EASTSIDE BLVD	MUSKOGEE	OK	74401	9186831132	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: INDIAN CAPITOL VOTECH HANDLER ID: OKD981595143
 STREET: NW 45TH & 2 BLKS N ON HWY 62 FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
CURTIS BRACKEEN	RT 6 BOX 206	MUSKOGEE	OK	74401	9186872723	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: INTEGRATED MEDICAL RESOURCES HANDLER ID: OK0000246090
 STREET: 701 W HANCOCK FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
GLENN ASBELL	701 W HANCOCK	MUSKOGEE	OK	74401	9186822525	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: JAMES HODGE FORD LINC & MERC HANDLER ID: OKD044494946
 STREET: 1200 N MAIN FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
WILLY KEIFER	1200 N MAIN	MUSKOGEE	OK	74401	9186821345	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: LAKE COUNTRY CHEVROLET HANDLER ID: OKR000004127
 STREET: 144 W SHAWNEE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JAKE BARKER	144 W SHAWNEE	MUSKOGEE	OK	74401	9186830311	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: MADEWELL METALS CORP HANDLER ID: OKD032994345
 STREET: 301 E SHAWNEE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
ELMO MADEWELL	PO BOX 1432	MUSKOGEE	OK	74402	9186827813	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
42193	Recyclable Material Wholesalers

HANDLER NAME: MUSKOGEE BONE AND JOINT CLINIC HANDLER ID: OKD089774087
 STREET: 209 S 36TH FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
PHILLIP KIZZIA	209 S 36TH	MUSKOGEE	OK	74401	9186827717	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: MUSKOGEE CITY OF WASTE TREATMENT PLANT HANDLER ID: OKD000632794
 STREET: E HANCOCK STREET FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
GENE KERNES	BOX 1927	MUSKOGEE	OK	74401	9186827745	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
22132	Sewage Treatment Facilities

HANDLER NAME: MUSKOGEE HIGH SCHOOL HANDLER ID: OKP410152384
 STREET: 3200 E. SHAWNEE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
WAYNE A. JOHNSON					9182306260	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
61111	Elementary and Secondary Schools

HANDLER NAME: MUSKOGEE WASTE AND WATER CO HANDLER ID: OKR000004218
 STREET: 1111 WEWOKA FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
ANDREW FLAKE	3219 S 39TH ST	FORT SMITH	AR	72903	9184825049	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: OG & E ELECTRIC SVCS HANDLER ID: OKD987084639
 STREET: 2301 S 24TH W FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
MICHAEL HUGHES	2301 S 24TH W	MUSKOGEE	OK	74401	4052723247	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: OKIECHEM INC HANDLER ID: OKR000017483
 STREET: 2009 W SHAWNEE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
PETE WOMACK	W SHAWNEE	MUSKOGEE	OK	74401	9186824441	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
31183	Tortilla Manufacturing

HANDLER NAME: OKLA DOT HANDLER ID: OKD981610538
 STREET: 3200 S 32ND FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DALE HALFACRE	BOX 1069	MUSKOGEE	OK	74401	9186875407	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: OKLAHOMA INSTALLATON CO HANDLER ID: OK0000057745
 STREET: 501 N MAIN ST STE 74 FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE

ZIP CODE: 74401
EPA REGION: 6

MAPPING INFO:

MAP

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
RANDY DILLMAN	PO BOX 740	OWASSO	OK	74055	9182721899	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: PARAGON INDUSTRIES HANDLER ID: OKR000015875
 STREET: 4631 HAROLD SCOGGINS DR FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JAKE YARBROUGH	4631 HAROLD SCOGGINS DR	MUSKOGEE	OK	74401	9187811430	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: PENSKE TRUCK LEASING CO L P HANDLER ID: OKD987069515
 STREET: 131 S 41ST ST E FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 744019307 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
RANDY LEE	131 S 41ST ST E	MUSKOGEE	OK	744019307	9186835575	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: PORT CITY BODY SHOP HANDLER ID: OKD096640347
 STREET: 622 N MAIN FACILITY INFORMATION: [View Facility Information](#)

CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
BRUCE-E THOMPSON	622 N MAIN	MUSKOGEE	OK	74401	9186871172	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: ROYAL CASKET CO INC HANDLER ID: OKD007217474
 STREET: 302 N MAIN FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
WILLIAM BOIES	302 N MAIN	MUSKOGEE	OK	74401	9186823232	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
339995	Burial Casket Manufacturing

HANDLER NAME: RYDER TRUCK RENTAL HANDLER ID: OKD980583751
 STREET: 1001 S C ST FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
CHARLES BEEN	1001 S C ST	MUSKOGEE	OK	74401	9186875411	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: SEARS NO 2045 HANDLER ID: OKR000001792
 STREET: NO 2 ARROWHEAD MALL FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
MARGARET WHITNEY	3333 BEVERLY RD D824C	HOFFMAN ESTATES	IL	60179	8472868616	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: SEARS ROEBUCK COMPANY HANDLER ID: OKD094036290
 STREET: 425 W BROADWAY FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
BILL ZINCK	425 W BROADWAY	MUSKOGEE	OK	74401	4057556800	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: SEMMATERIALS, L.P. - MUSKOGEE OK HANDLER ID: OKR000002139
 STREET: 2501 PORT PLACE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
GLENN WALDROP	PORT PLACE	MUSKOGEE	OK	744012501	9186831732	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
324121	Asphalt Paving Mixture and Block Manufacturing

HANDLER NAME: SHERWIN WILLIAMS CO HANDLER ID: OKD080600208
 STREET: 232 EASTSIDE BLVD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
TERRY MORS	232 EASTSIDE BLVD	MUSKOGEE	OK	74401	2165663096	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: SOLA OPTICAL USA INCORPORATED HANDLER ID: OKD981058662
 STREET: 3451 SOUTHERN HEIGHTS DR. FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
KENNETH ALESSI	3451 SOUTHERN HEIGHTS DR	MUSKOGEE	OK	74401	9186873371	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: SOUTHERN MATERIAL HANDLING CO HANDLER ID: OKR000006155
 STREET: 601 N 41ST ST EAST FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
CALVIN BAKEL	601 N 41ST ST EAST	MUSKOGEE	OK	74401	9186839154	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: SUN OIL CO PENN-DBA B & A SUPPLY HANDLER ID: OKD000719500
 STREET: 1152 N YORK FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
KARL BECKERS	1152 N YORK	MUSKOGEE	OK	74401	3148784810	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: TERRY MILLER PONTIAC HANDLER ID: OKR000001800
 STREET: 602 W BROADWAY FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
BRIAN WILLIAMS	PO BOX 7016	MUSKOGEE	OK	74402	9186874441	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: TERRY-MILLER PONTIAC-GMC TRUCK HANDLER ID: OKD981611973
 STREET: 540 COURT ST FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
TERRY MILLER	P.O. BOX 7016	MUSKOGEE	OK	74402	9186874441	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: THREE RIVERS STEEL CO INC HANDLER ID: OKD078640034
 STREET: HANCOCK AT NAT IRISH FRWY FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
STEPHEN CRANK	BOX 386	MUSKOGEE	OK	74401	9186830442	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
332312	Fabricated Structural Metal Manufacturing

HANDLER NAME: TOYOTA OF MUSKOGEE HANDLER ID: OKD981907603
 STREET: 1330 N MAIN FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
AARON DUVAL	1330 N MAIN	MUSKOGEE	OK	74401	9186871234	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: TURNER BROTHERS INC. HANDLER ID: OKD097285118
 STREET: 2300 32ND ST. FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE

ZIP CODE: 74401
EPA REGION: 6

MAPPING INFO:

MAP

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
GEORGE SWISHER	P.O. BOX 447	MUSKOGEE	OK	74401	9186879972	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: UNIQUE AUTO REPAIR HANDLER ID: OKR000015750
 STREET: 3923 W BROADWAY FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JAMES KELTON	3923 W BROADWAY	MUSKOGEE	OK	74401	9186832528	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: UNITED PARCEL SERVICE (MUSKOGEE) HANDLER ID: OKR000015313
 STREET: 1005 W SHAWNEE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
TYE ROBINSON	901 S PORTLAND AVE	OKLAHOMA CITY	OK	73108	4059483827	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: US DOE SOUTHWEST POWER MUSKOGEE HANDLER ID: OK3143120761
 STREET: 1409 W SHAWNEE STREET FACILITY INFORMATION: [View Facility Information](#)

CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
UNKNOWN UNKNOWN	PO BOX 1569	MUSKOGEE	OK	74401		Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: US VETERANS ADMINISTRATION MEDICAL CENTER MUSKOGEE HANDLER ID: OK2360007304
 STREET: 1011 HONOR HEIGHTS DRIVE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
ELDON SCHOONOVER	HONOR HEIGHTS DR.	MUSKOGEE	OK	74401	9186833261	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: VALET CLEANING AND /PARISIAN WOLFE CLNRS HANDLER ID: OKD981590284
 STREET: 316 COURT FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
MIKE VOEGELI	PO BOX 1366	MUSKOGEE	OK	74402	9186824326	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: YAFFE IRON & METAL COMPANY INCORPORATED HANDLER ID: OKD032997496
 STREET: G STREET & LEXINGTON AVENUE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 744010003 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
BILL CALE	BOX 916	MUSKOGEE	OK	74401	9186877543	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
331492	Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum)
42151	Metal Service Centers and Offices
42193	Recyclable Material Wholesalers

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U.S. Environmental Protection Agency

Resource Conservation and Recovery Act (RCRAInfo)

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Query Results



Consolidated facility information (from multiple EPA systems) was searched to select facilities

ZIP Code: 74403
City Name: muskogee
State Abbreviation: ok

Results are based on data extracted on JUN-06-2006

Note: Click on the underlined CORPORATE LINK value for links to that company's environmental web pages. Click on the underlined MAPPING INFO value to obtain mapping information for the facility.

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HANDLER NAME:	ACME ENGINEERING & MANUFACTURING CORPORATION	HANDLER ID:	OKD007224280
STREET:	1820 NORTH YORK STREET	FACILITY INFORMATION:	View Facility Information
CITY:	MUSKOGEE	CORPORATE LINK:	No
STATE:	OK	COUNTY:	MUSKOGEE
ZIP CODE:	74403	MAPPING INFO:	MAP
EPA REGION:	6		

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
BRETT LONERGAN	1820 N YORK	MUSKOGEE	OK	744031451	9186827791	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
33341	Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing

HANDLER NAME:	ACME ENGINEERING APD DIV	HANDLER ID:	OK0000228072
STREET:	2631 PORT PL	FACILITY INFORMATION:	View Facility Information
CITY:	MUSKOGEE	CORPORATE LINK:	No
STATE:	OK	COUNTY:	MUSKOGEE
ZIP CODE:	74403	MAPPING INFO:	MAP
EPA REGION:	6		

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
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CHARLES FERGUSON	PO BOX 978	MUSKOGEE	OK	74402	9186827791	Public
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No NAICS Codes are available for the facility listed above.

HANDLER NAME: ADVANCE WARNINGS HANDLER ID: OKR000008623
 STREET: 2500 S 32ND ST FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
GARY LAXTON	PO BOX 1911	MUSKOGEE	OK	74401	9186820039	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: AMERICAN FOUNDRY GR AMERICAN ALLOY II HANDLER ID: OKR000007021
 STREET: 612 S 45TH ST E FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
PHILLIP DURLAND	612 S 45TH E	MUSKOGEE	OK	74402	9186835683	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: ARCHER CLNRS MUSKOG/625 N YORK (ARCHERS HANDLER ID: OKD981148273
 STREET: 625 N. YORK FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOHN-G ARCHER	625 N YORK	MUSKOGEE	OK	74403	9186875531	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: COBURN OPTICAL INDUSTRIES HANDLER ID: OKD987070422
 STREET: 2012 ANDERSON DR FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DOUG HENDRICKS	PO BOX 627	MUSKOGEE	OK	74402	9186834521	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: COURTESY CHEV GEO HONDA HANDLER ID: OK0000623256
 STREET: 104 KAAD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JAMES POTETT	PO BOX 2729	MUSKOGEE	OK	74401	9186830311	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: D & O BODY SHOP HANDLER ID: OK0000716720
 STREET: 200 E MARTIN LUTHER KING FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DANNY CUOZZO	200 E MARTIN LUTHER KING	MUSKOGEE	OK	74403	9186830045	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME:	FANSTEEL INCORPORATED MUSKOGEE FURNACE FAC	HANDLER ID:	OKD007221831
STREET:	10 TANTALUM PLACE	FACILITY INFORMATION:	View Facility Information
CITY:	MUSKOGEE	CORPORATE LINK:	No
STATE:	OK	COUNTY:	MUSKOGEE
ZIP CODE:	74403	MAPPING INFO:	MAP
EPA REGION:	6		

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JAMES-A PIERRET	10 TANTALUM PLACE	MUSKOGEE	OK	74401	9186876303	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
331419	Primary Smelting and Refining of Nonferrous Metal (except Copper and Aluminum)

HANDLER NAME:	FORMER WAL-MART STORE # 130	HANDLER ID:	OKD987098159
STREET:	2412 E SHAWNEE	FACILITY INFORMATION:	View Facility Information
CITY:	MUSKOGEE	CORPORATE LINK:	No
STATE:	OK	COUNTY:	MUSKOGEE
ZIP CODE:	74403	MAPPING INFO:	MAP
EPA REGION:	6		

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
MIKE EBERT	SW 8TH ST	BENTONVILLE	AR	72716	9186870058	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME:	FORT JAMES OPERATING COMPANY	HANDLER ID:	OKD072414741
STREET:	4901 CHANDLER RD.	FACILITY INFORMATION:	View Facility Information
CITY:	MUSKOGEE	CORPORATE LINK:	No

STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DUSTIN GIVENS	4901 E CHANDLER RD	MUSKOGEE	OK	744034909	9186837671	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
32212	Paper Mills

HANDLER NAME: FRONTIER TERMINAL HANDLER ID: OKD987082641
 STREET: N 48TH AND CHANDLER RD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DAVID PUNNETT	PO BOX 701497	TULSA	OK	74107	9184967770	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: GRANT PRIDECO LP/MUSKOGEE PLT HANDLER ID: OKD102424413
 STREET: 3800 PORT PLACE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOY STAFFORD	3800 PORT PLACE	MUSKOGEE	OK	74403	9187814512	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
31-33	Manufacturing

HANDLER NAME: MUSKOGEE BRIDGE CO HANDLER ID: OKD049070147
 STREET: THREE MILE RD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
CURTIS SMITH	PO BOX 798	MUSKOGEE	OK	74402	9186836151	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: OWENS BROCKWAY GLASS CONTAINER INCORPORATED HANDLER ID: OKD007222805
 STREET: YORK & SHAWNEE STREET FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
MIKE BENNETT	P O BOX 8	MUSKOGEE	OK	74403	9186844509	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
327213	Glass Container Manufacturing

HANDLER NAME: PENSKE AUTO CENTER HANDLER ID: OKR000001339
 STREET: 4 E SHAWNEE ST STE B FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DAVID TATUM	3270 W BIG BEAVER RD	TROY	MI	480843163	8106435171	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: SCHRADER-BRIDGEPORT INTL HANDLER ID: OKD987072048
 STREET: 500 SE 48TH STREET FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DAVID HARDING	PO BOX 769	MUSKOGEE	OK	74402	9186865062	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: UNION METAL CORP HANDLER ID: OKD007219165
 STREET: 420 FRANKFORT AVENUE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JERRY EMANUEL	FRANKFORT AVE	MUSKOGEE	OK	744036401	9186835005	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
325998	All Other Miscellaneous Chemical Product and Preparation Manufacturing
332312	Fabricated Structural Metal Manufacturing
335129	Other Lighting Equipment Manufacturing
33991	Jewelry and Silverware Manufacturing

HANDLER NAME: USARC ALTON M. ASHWORTH HANDLER ID: OK1210022504
 STREET: 1806 N YORK ST FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JAMES WHEELER	CAMP ROBINSON RD	NORTH LITTLE ROCK	AR	721182205	8005011493 7992	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: WAL-MART SUPERCENTER # 130 HANDLER ID: OKR000020024
 STREET: 1000 W SHAWNEE ST FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
PAULINE LASSITER	SW 8TH ST	BENTONVILLE	AR	727160500	4792042055	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
45291	Warehouse Clubs and Supercenters

HANDLER NAME: WATERLOO INDUSTRIES INCORPORATED HANDLER ID: OKR000001891
 STREET: 300 S. 45TH ST. E. FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
MATTHEW J SOMMERS	E 4TH ST	WATERLOO	IA	50703	8708924586 5441	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
332439	Other Metal Container Manufacturing
332999	All Other Miscellaneous Fabricated Metal Product Manufacturing

HANDLER NAME: ZAPATA INDUSTRIES INC HANDLER ID: OKD990751059
 STREET: 4400 DON CAYO DR. FACILITY INFORMATION: [View Facility Information](#)

CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74403 MAPPING INFO: MAP
 EPA REGION: 6 RCRA Corrective Action: **PROFILE**

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
HARRY O MELLON	DON CAYO DRIVE	MUSKOGEE	OK	74403	9186834577 149	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
332115	Crown and Closure Manufacturing

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Total Number of Facilities Displayed: 22

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U.S. Environmental Protection Agency

**Resource Conservation and Recovery Act
(RCRAInfo)**

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Query Results



Consolidated facility information (from multiple EPA systems) was searched to select facilities

ZIP Code: 74401
City Name: muskogee
State Abbreviation: ok

Results are based on data extracted on JUN-06-2006

Note: Click on the underlined CORPORATE LINK value for links to that company's environmental web pages. Click on the underlined MAPPING INFO value to obtain mapping information for the facility.

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HANDLER NAME: ALL STATE ELECTRIC MOTOR **HANDLER ID:** OKD987068897
STREET: 1730 N 11TH **FACILITY INFORMATION:** [View Facility Information](#)
CITY: MUSKOGEE **CORPORATE LINK:** No
STATE: OK **COUNTY:** MUSKOGEE
ZIP CODE: 74401 **MAPPING INFO:** [MAP](#)
EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
ED RIVARO	1730 N 11TH	MUSKOGEE	OK	74401	9186836581	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: ARCHER CLNRS MUSKOG/700 W OKMULGEE (ARCH **HANDLER ID:** OKD032990202
STREET: 700 W. OKMULGEE **FACILITY INFORMATION:** [View Facility Information](#)
CITY: MUSKOGEE **CORPORATE LINK:** No
STATE: OK **COUNTY:** MUSKOGEE
ZIP CODE: 74401 **MAPPING INFO:** [MAP](#)
EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOHN-G ARCHER	700 W OKMULGEE	MUSKOGEE	OK	74401	9186875531	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: ARKHOLA MUSKOGEE GLASS SAND PLANT HANDLER ID: OKD061636296
 STREET: HIGHWAY 69 NT & ARKANSAS RIVER FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOHN SULCER	PO BOX 1401	MUSKOGEE	OK	74401	4797854271	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
212322	Industrial Sand Mining

HANDLER NAME: BJ TITAN SVCS HANDLER ID: OKD980748826
 STREET: 1341 W SHAWNEE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JIM BENNETT	PO BOX 1555	MUSKOGEE	OK	74401	9186870884	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: BORAL BRICKS INCORPORATED MUSKOGEE PLANT HANDLER ID: OKR000014886
 STREET: 3101 WEST 53RD STREET SOUTH FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
CHRISTOPHER SPRALIDY	3101 W 53RD STREET S	MUSKOGEE	OK	74401	9186876734	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: BREWSTERS PAINT & BO/SH HANDLER ID: OKD981903719
 STREET: FURN MOUNTAIN RD 4.5MI W OF 69 FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
KEITH RAY BREWSTER	RT 3 BOX 318A	MUSKOGEE	OK	74401	9186826390	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: C & K EQUIPMENT HANDLER ID: OKD198951634
 STREET: 1215 S 32ND FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
FRED BIBBER	1215 S 32ND	MUSKOGEE	OK	74401	9186831536	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: CHURCHILL TRUCK LINES INC HANDLER ID: OKD987087061
 STREET: 520 S B ST FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DAVID EDWARDS	520 S B ST	MUSKOGEE	OK	74401	8166461590	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: CONDLEY SERVICE STATION HANDLER ID: OKD032991457
 STREET: 129 EAST SIDE BLVD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
THURMAN CONDLEY	129 EAST SIDE BLVD	MUSKOGEE	OK	74401		Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: CONTAINER CORPORATION OF AMERICA HANDLER ID: OKD007227200
 STREET: SHAWNEE & RIDGE ROAD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DUANE MASON	P O BOX 858	MUSKOGEE	OK	74401	9186877503	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: CORNING GLASS HANDLER ID: OKD007227192
 STREET: 1500 SUMMIT STREET FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP

EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
MELSEE JONES	1500 SUMMIT	MUSKOGEE	OK	74401	6079747846	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
327212	Other Pressed and Blown Glass and Glassware Manufacturing

HANDLER NAME: COURTESY MOTORS INC HANDLER ID: OKD981908908
 STREET: 3143 N 32ND FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOHN SIMON	3143 N 32ND	MUSKOGEE	OK	74401	9186830311	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: DAL-ITALIA HANDLER ID: OKR000019398
 STREET: 3801 DAL-TILE RD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOE GENET	DAL TILE RD	MUSKOGEE	OK	74401	9186834043	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
327122	Ceramic Wall and Floor Tile Manufacturing

HANDLER NAME: DANIEL CONSTRUCTION COMPANY HANDLER ID: OKD080582430

STREET: 900 E. 56TH STREET FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
STEVE GREENE	P.O. BOX 2549	MUSKOGEE	OK	74401	9186831504	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: FASHION CLEANERS HANDLER ID: OKD032996456
 STREET: 711 EASTSIDE BLVD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOHN PANGBURN	711 EASTSIDE BLVD	MUSKOGEE	OK	74401	9186831132	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: INDIAN CAPITOL VOTECH HANDLER ID: OKD981595143
 STREET: NW 45TH & 2 BLKS N ON HWY 62 FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
CURTIS BRACKEEN	RT 6 BOX 206	MUSKOGEE	OK	74401	9186872723	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: INTEGRATED MEDICAL RESOURCES HANDLER ID: OK0000246090
 STREET: 701 W HANCOCK FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
GLENN ASBELL	701 W HANCOCK	MUSKOGEE	OK	74401	9186822525	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: JAMES HODGE FORD LINC & MERC HANDLER ID: OKD044494946
 STREET: 1200 N MAIN FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
WILLY KEIFER	1200 N MAIN	MUSKOGEE	OK	74401	9186821345	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: LAKE COUNTRY CHEVROLET HANDLER ID: OKR000004127
 STREET: 144 W SHAWNEE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JAKE BARKER	144 W SHAWNEE	MUSKOGEE	OK	74401	9186830311	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: MADEWELL METALS CORP HANDLER ID: OKD032994345
 STREET: 301 E SHAWNEE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
ELMO MADEWELL	PO BOX 1432	MUSKOGEE	OK	74402	9186827813	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
42193	Recyclable Material Wholesalers

HANDLER NAME: MUSKOGEE BONE AND JOINT CLINIC HANDLER ID: OKD089774087
 STREET: 209 S 36TH FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
PHILLIP KIZZIA	209 S 36TH	MUSKOGEE	OK	74401	9186827717	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: MUSKOGEE CITY OF WASTE TREATMENT PLANT HANDLER ID: OKD000632794
 STREET: E HANCOCK STREET FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
GENE KERNES	BOX 1927	MUSKOGEE	OK	74401	9186827745	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
22132	Sewage Treatment Facilities

HANDLER NAME: MUSKOGEE HIGH SCHOOL HANDLER ID: OKP410152384
 STREET: 3200 E. SHAWNEE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
WAYNE A. JOHNSON					9182306260	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
61111	Elementary and Secondary Schools

HANDLER NAME: MUSKOGEE WASTE AND WATER CO HANDLER ID: OKR000004218
 STREET: 1111 WEWOKA FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
ANDREW FLAKE	3219 S 39TH ST	FORT SMITH	AR	72903	9184825049	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: OG & E ELECTRIC SVCS HANDLER ID: OKD987084639
 STREET: 2301 S 24TH W FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
MICHAEL HUGHES	2301 S 24TH W	MUSKOGEE	OK	74401	4052723247	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: OKIECHEM INC HANDLER ID: OKR000017483
 STREET: 2009 W SHAWNEE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
PETE WOMACK	W SHAWNEE	MUSKOGEE	OK	74401	9186824441	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
31183	Tortilla Manufacturing

HANDLER NAME: OKLA DOT HANDLER ID: OKD981610538
 STREET: 3200 S 32ND FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DALE HALFACRE	BOX 1069	MUSKOGEE	OK	74401	9186875407	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: OKLAHOMA INSTALLATON CO HANDLER ID: OK0000057745
 STREET: 501 N MAIN ST STE 74 FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE

ZIP CODE: 74401
EPA REGION: 6

MAPPING INFO:

MAP

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
RANDY DILLMAN	PO BOX 740	OWASSO	OK	74055	9182721899	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: PARAGON INDUSTRIES HANDLER ID: OKR000015875
 STREET: 4631 HAROLD SCOGGINS DR FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JAKE YARBROUGH	4631 HAROLD SCOGGINS DR	MUSKOGEE	OK	74401	9187811430	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: PENSKE TRUCK LEASING CO L P HANDLER ID: OKD987069515
 STREET: 131 S 41ST ST E FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 744019307 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
RANDY LEE	131 S 41ST ST E	MUSKOGEE	OK	744019307	9186835575	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: PORT CITY BODY SHOP HANDLER ID: OKD096640347
 STREET: 622 N MAIN FACILITY INFORMATION: [View Facility Information](#)

CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
BRUCE-E THOMPSON	622 N MAIN	MUSKOGEE	OK	74401	9186871172	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: ROYAL CASKET CO INC HANDLER ID: OKD007217474
 STREET: 302 N MAIN FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
WILLIAM BOIES	302 N MAIN	MUSKOGEE	OK	74401	9186823232	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
339995	Burial Casket Manufacturing

HANDLER NAME: RYDER TRUCK RENTAL HANDLER ID: OKD980583751
 STREET: 1001 S C ST FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
CHARLES BEEN	1001 S C ST	MUSKOGEE	OK	74401	9186875411	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: SEARS NO 2045 HANDLER ID: OKR000001792
 STREET: NO 2 ARROWHEAD MALL FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
MARGARET WHITNEY	3333 BEVERLY RD D824C	HOFFMAN ESTATES	IL	60179	8472868616	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: SEARS ROEBUCK COMPANY HANDLER ID: OKD094036290
 STREET: 425 W BROADWAY FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
BILL ZINCK	425 W BROADWAY	MUSKOGEE	OK	74401	4057556800	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: SEMMATERIALS, L.P. - MUSKOGEE OK HANDLER ID: OKR000002139
 STREET: 2501 PORT PLACE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: [MAP](#)
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
GLENN WALDROP	PORT PLACE	MUSKOGEE	OK	744012501	9186831732	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
324121	Asphalt Paving Mixture and Block Manufacturing

HANDLER NAME: SHERWIN WILLIAMS CO HANDLER ID: OKD080600208
 STREET: 232 EASTSIDE BLVD FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
TERRY MORS	232 EASTSIDE BLVD	MUSKOGEE	OK	74401	2165663096	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: SOLA OPTICAL USA INCORPORATED HANDLER ID: OKD981058662
 STREET: 3451 SOUTHERN HEIGHTS DR. FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
KENNETH ALESSI	3451 SOUTHERN HEIGHTS DR	MUSKOGEE	OK	74401	9186873371	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: SOUTHERN MATERIAL HANDLING CO HANDLER ID: OKR000006155
 STREET: 601 N 41ST ST EAST FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
CALVIN BAKEL	601 N 41ST ST EAST	MUSKOGEE	OK	74401	9186839154	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: SUN OIL CO PENN-DBA B & A SUPPLY HANDLER ID: OKD000719500
 STREET: 1152 N YORK FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
KARL BECKERS	1152 N YORK	MUSKOGEE	OK	74401	3148784810	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: TERRY MILLER PONTIAC HANDLER ID: OKR000001800
 STREET: 602 W BROADWAY FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
BRIAN WILLIAMS	PO BOX 7016	MUSKOGEE	OK	74402	9186874441	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: TERRY-MILLER PONTIAC-GMC TRUCK HANDLER ID: OKD981611973
 STREET: 540 COURT ST FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
TERRY MILLER	P.O. BOX 7016	MUSKOGEE	OK	74402	9186874441	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: THREE RIVERS STEEL CO INC HANDLER ID: OKD078640034
 STREET: HANCOCK AT NAT IRISH FRWY FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
STEPHEN CRANK	BOX 386	MUSKOGEE	OK	74401	9186830442	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
332312	Fabricated Structural Metal Manufacturing

HANDLER NAME: TOYOTA OF MUSKOGEE HANDLER ID: OKD981907603
 STREET: 1330 N MAIN FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
AARON DUVAL	1330 N MAIN	MUSKOGEE	OK	74401	9186871234	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: TURNER BROTHERS INC. HANDLER ID: OKD097285118
 STREET: 2300 32ND ST. FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE

ZIP CODE: 74401
EPA REGION: 6

MAPPING INFO:

MAP

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
GEORGE SWISHER	P.O. BOX 447	MUSKOGEE	OK	74401	9186879972	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: UNIQUE AUTO REPAIR HANDLER ID: OKR000015750
 STREET: 3923 W BROADWAY FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JAMES KELTON	3923 W BROADWAY	MUSKOGEE	OK	74401	9186832528	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: UNITED PARCEL SERVICE (MUSKOGEE) HANDLER ID: OKR000015313
 STREET: 1005 W SHAWNEE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
TYE ROBINSON	901 S PORTLAND AVE	OKLAHOMA CITY	OK	73108	4059483827	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: US DOE SOUTHWEST POWER MUSKOGEE HANDLER ID: OK3143120761
 STREET: 1409 W SHAWNEE STREET FACILITY INFORMATION: [View Facility Information](#)

CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
UNKNOWN UNKNOWN	PO BOX 1569	MUSKOGEE	OK	74401		Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: US VETERANS ADMINISTRATION MEDICAL CENTER MUSKOGEE HANDLER ID: OK2360007304
 STREET: 1011 HONOR HEIGHTS DRIVE FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
ELDON SCHOONOVER	HONOR HEIGHTS DR.	MUSKOGEE	OK	74401	9186833261	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: VALET CLEANING AND /PARISIAN WOLFE CLNRS HANDLER ID: OKD981590284
 STREET: 316 COURT FACILITY INFORMATION: [View Facility Information](#)
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 74401 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
MIKE VOEGELI	PO BOX 1366	MUSKOGEE	OK	74402	9186824326	Public

No NAICS Codes are available for the facility listed above.

HANDLER NAME: YAFFE IRON & METAL COMPANY INCORPORATED HANDLER ID: OKD032997496
 STREET: G STREET & LEXINGTON AVENUE FACILITY INFORMATION: View Facility Information
 CITY: MUSKOGEE CORPORATE LINK: No
 STATE: OK COUNTY: MUSKOGEE
 ZIP CODE: 744010003 MAPPING INFO: MAP
 EPA REGION: 6

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
BILL CALE	BOX 916	MUSKOGEE	OK	74401	9186877543	Public

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
331492	Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum)
42151	Metal Service Centers and Offices
42193	Recyclable Material Wholesalers

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Total Number of Facilities Displayed: 51

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U.S. Environmental Protection Agency

Resource Conservation and Recovery Act Corrective Action Site Progress Profile

Contact Us | Print Version Search: **GO**

EPA Home > Cleanup > Cleanups In My Community > ZAPATA INDUSTRIES INC

- Cleanup Home
- Basic Information
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- Laws/Statutes
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- Policy/Guidance
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- EPA Programs Involved with Cleanup
- Grants/Funding
- Science/Technology
- Partners
- What You Can Do
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- Related Links
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 - Background Information
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 - Cleanups In My Community



ZAPATA INDUSTRIES INC ID: (OKD990751059)


More Details

- [Facility Information \(Facility Registry System\)](#)
- [Waste Process Report](#)
- [Facility Classification Report](#)
- [Engineering/Institutional Controls and Industry Classification Report](#)
- [Other Names for this Site](#)

This profile is meant to provide you with basic information on EPA's cleanup progress at this RCRA facility. Please use the links in the "More Details..." box to find other information on this site.



Site Location



[Get an interactive map](#)

EPA Region 6 implements and enforces the RCRA corrective action program for Louisiana, Arkansas, Oklahoma, New Mexico, Texas and Tribal Nations

Site Address:
ZAPATA INDUSTRIES INC
4400 DON CAYO DRIVE
MUSKOGEE, OK 74403
County: MUSKOGEE

US Congressional District: 2
Population within 1 mile: 422

For further information on this corrective action site, contact region or state in which this site is located.

Cleanup Progress Summary

Hazardous wastes are managed under the Resource conservation and Recovery Act. When these wastes contaminate the land, water or air they must undergo "corrective action."




Cleanup is complete for this corrective action site.

[View detailed list of cleanup activities >>](#)


[View information on what controls are in place to protect human health and the environment >>](#)

Environmental Impact Summary

If this corrective action site has been examined to determine if human exposures to contaminants are under control and the migration of contaminated water is under control, that information is provided below.



At this site, human exposures are under control.



At this site, migration of contaminated groundwater is under control.

Contamination & Exposure

Contamination:

Information on the contamination and the reason for the cleanup may be available. For further information, see the contact information provided above, or try the Statement of Basis Web Page to see if a Statement of Basis for the corrective action remedy has been provided to EPA.

Exposure:

Is human exposure to contamination at this site under control? YES
 Is the migration of contaminated groundwater at this site under control? YES

The Solution: Cleanup Process & Progress

Cleanup Activities at this site:

- 1. Site Assessed 29-APR-88
- 2. Site Identified for Corrective Action NO
- 3. Solution for Cleanup Selected (Final Remedy Decision) UNKNOWN
- 4. Solution for Cleanup is Implemented UNKNOWN
- 5. Cleanup Complete 25-NOV-92

Controls in Place at this site:

There are many types of controls that can be put in place to control human exposure to contaminants and the migration of contaminated groundwater from the site, and protect the effectiveness of cleanup remedies. Engineering Controls are mechanisms that work by physically controlling access to the land, the flow of water, etc. Examples include fences, cement caps over contaminated areas, and pumps. Institutional Controls (ICs) (also known as land use controls (LUCs) [EXIT disclaimer](#)), activity and use limitations (AULs), and environmental use restrictions (EURs) are administrative and/or legal controls, that work by limiting land or resource use. Private or (proprietary) examples include deed restrictions, covenants and easements. Public (or governmental) examples include zoning ordinances and groundwater permitting programs.

Are controls in place at this site?	Type of Control(s):
Institutional Controls: NO	
Engineering Controls: NO	

Government Performance & Results Act (GRPA) Milestones

EPA is required to report on the following milestones under the Government Performance & Results Act. [More Information...](#)

Milestone	Status
Human Exposure Under Control	YES
Contaminated Groundwater migration Under Control	YES

[Window to My Environment](#) | [EnviroMapper](#) | [EnviroFacts](#) | [Cleanups in My Community](#)
[RCRA Corrective Action Home](#) | [OSWER Home](#) | [Customer Satisfaction Survey](#)

Data Refreshed on Tuesday , June 06, 2006

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http://oaspub.epa.gov/enviro/rcra_profile.getmain



U.S. Environmental Protection Agency

Resource Conservation and Recovery Act (RCRAInfo)

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Query Results



Consolidated facility information (from multiple EPA systems) was searched to select facilities

Handler ID: Beginning WITH: OKD990751059

Results are based on data extracted on JUN-06-2006

Note: Click on the underlined CORPORATE LINK value for links to that company's environmental web pages. Click on the underlined MAPPING INFO value to obtain mapping information for the facility.

[Go To Bottom Of The Page](#)

HANDLER NAME: ZAPATA INDUSTRIES INC **HANDLER ID:** OKD990751059
STREET: 4400 DON CAYO DR. **FACILITY INFORMATION:** [View Facility Information](#)
CITY: MUSKOGEE **CORPORATE LINK:** No
STATE: OK **COUNTY:** MUSKOGEE
ZIP CODE: 74403 **MAPPING INFO:** [MAP](#)
EPA REGION: 6 **RCRA Corrective Action:** [PROFILE](#)

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
HARRY O MELLON	DON CAYO DRIVE	MUSKOGEE	OK	74403	9186834577 149	Public

LIST OF PROCESS UNIT INFORMATION FOR GROUP INCINERATOR

PROCESS CODE / DESCRIPTION	LEGAL OPERATING STATUS	UNIT OF MEASUREMENT TYPE / DESCRIPTION	CAPACITY TYPE / DESCRIPTION	QUANTITY	CAPACITY	EFFECTIVE DATE
T03 - INCINERATOR	Permit Terminated/permit Expired, Not Continued - Clean Closed	E - GALLONS PER HOUR	P - PERMITTED	1	12	12-SEP-83

[Go To Top Of The Page](#)

Total Number of Facilities Displayed: 1

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U.S. Environmental Protection Agency

Facility Registry System (FRS)

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EPA Home > Envirofacts > FRS > Report



Facility Detail Report



Facility Name:	FANSTEEL INCORPORATED MUSKOGEE FURNACE FAC
Location Address:	10 TANTALUM PLACE
Supplemental Address:	
City Name:	MUSKOGEE
State:	OK
County Name:	MUSKOGEE
ZIP/Postal Code:	74403
EPA Region:	06
Congressional District Number:	02
Legislative District Number:	
HUC Code:	11110102
Federal Facility:	NO
Tribal Land :	YES
Tribal Land Name:	CHEROKEE TJSA
Latitude:	35.776737
Longitude:	-95.302644
Method:	GPS CODE (PSEUDO RANGE) DIFFERENTIAL
Reference Point Description:	WATER RELEASE PIPE
Duns Number:	
Registry ID:	110001632378

[Map this facility](#)

Environmental Interests

Information System	Information System ID	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
AIRS/AFS	4010100900	AIR SYNTHETIC MINOR	AIRS/AFS	02/14/2006	
ICIS	9	FORMAL ENFORCEMENT ACTION	ICIS	01/22/1996	ICIS-06-1987-0202 FORMAL ENFORCEMENT ACTION
NEI	NEIOKT\$11107	CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY	NEI		
PCS	OK0001643	NPDES NON-MAJOR	NPDES PERMIT	11/02/2001	
RCRAINFO	OKD007221831	NOT IN A UNIVERSE	NOTIFICATION	08/05/1980	

TRIS	74401FNSTLNUMBE	TRI REPORTER	TRI REPORTING FORM	06/29/2001
------	-----------------	--------------	--------------------	------------

Facility Mailing Addresses

Affiliation Type	Delivery Point	City Name	State	Postal Code	Information System
CONTACT/GENERAL	#10 TANTALUM PLACE	MUSKOGEE	OK	74403	PCS
CONTACT/GENERAL	10 TANTALUM PL	MUSKOGEE	OK	74403-9207	TRIS
CONTACT/GENERAL	10 TANTALUM PLACE	MUSKOGEE	OK	74401	RCRAINFO
CONTACT/OPERATOR	1 TANTALUM PLACE	UNKNOWN	IL	000000000	RCRAINFO
CONTACT/OWNER	ONE TANTALUM PL	NORTH CHICAGO	IL	60064	RCRAINFO
CONTACT/REGULATORY	10 TANTALUM PLACE	MUSKOGEE	OK	74401	RCRAINFO

NAICS Codes

Data Source	NAICS Code	Description	Primary
NEI	3251		
RCRAINFO	331419	PRIMARY SMELTING AND REFINING OF NONFERROUS METAL (EXCEPT COPPER AND ALUMINUM).	

SIC Codes

Data Source	SIC Code	Description	Primary
NEI	2819	INDUSTRIAL INORGANIC CHEMICALS, NOT ELSEWHERE CLASSIFIED	
TRIS	2819	INDUSTRIAL INORGANIC CHEMICALS, NOT ELSEWHERE CLASSIFIED	
AIRS/AFS	3339	PRIMARY SMELTING AND REFINING OF NONFERROUS METALS, EXCEPT COPPER AND ALUMINUM	
ICIS	3339	PRIMARY SMELTING AND REFINING OF NONFERROUS METALS, EXCEPT COPPER AND ALUMINUM	
TRIS	3339	PRIMARY SMELTING AND REFINING OF NONFERROUS METALS, EXCEPT COPPER AND ALUMINUM	
PCS	3341	SECONDARY SMELTING AND REFINING OF NONFERROUS METALS	

Contacts

Affiliation Type	Full Name	Office Phone	Information System	Mailing Address
COGNIZANT OFFICIAL	A. FRED DOHMANN, PRESIDENT	9186876303	PCS	
CONTACT/GENERAL	A. FRED DOHMANN	9186876303	TRIS	
CONTACT/REGULATORY	JAMES-A PIERRET	9186876303	RCRAINFO	View

Organizations

Affiliation Type	Name	DUNS Number	Information System	Mailing Address
CONTACT/OPERATOR	FANSTEEL INC		RCRAINFO	View

CONTACT/OWNER

FANSTEEL INC

RCRAINFO

View

Alternative Names

Alternative Name	Source of Data
FANSTEEL INC.	TRIS
FANSTEEL, INC.-MUSKOGEE	NPDES PERMIT
FANSTEEL INC.	TRI REPORTING FORM
FANSTEEL METALS	RCRAINFO
FMRI, INC.	NPDES PERMIT

Query executed on: DEC-18-2006

Additional information for CERCLIS or TRI sites:

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Superfund Site Information

Site Documents

Data Element Dictionary (DED)

Order Superfund Products

Superfund Site Information

Search Results

Search Criteria:

Active vs. Archived: *Active What are active and archived sites?*
 City: *MUSKOGEE*
 State(s): *Oklahoma*

Found 4 site(s) that match your search criteria listed above. To conduct another search, return to the [Search Superfund Site Information](#) page or request a [Customized SIS Report](#).

[Save results in Excel format](#)

Displaying sites 1 through 4

EPA ID ▼	Site Name ▼	City ▼	County ▼	State ▼	NPL Status ▼
OK0001408228	CALLERY ROCKET FUEL	MUSKOGEE	MUSKOGEE	OK	Not NPL
OK0001408236	HUB WASTE OIL	MUSKOGEE	MUSKOGEE	OK	Not NPL
OK0002024594	THE PURE OIL COMPANY	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKN000606583	YAFFE IRON & METAL EXPLOSION	MUSKOGEE	[Blank County]	OK	Not NPL

Displaying sites 1 through 4

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Search Results

Search Criteria:

Active vs. Archived: *Archived* What are active and archived sites?
 City: MUSKOGEE
 State(s): Oklahoma

Found 19 site(s) that match your search criteria listed above.

To conduct another search, return to the [Search Superfund Site Information](#) page or request a [Customized SIS Report](#).

Save results in Excel format

Displaying sites 1 through 19

EPA ID ▼	Site Name ▼	City ▼	County ▼	State ▼	NPL Status ▼
OKD007224280	ACME ENGINEERING & MANUFACTURING CORP	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD007044142	BLYTHEVILLE CANNING COMPANY INC-LAGOON	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD007222805	BROCKWAY GLASS COMPANY INC PLANT #3	MUSKOGEE	MUSKOGEE	OK	Not NPL
OK0000605200	COLE GRAIN	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD007227192	CORNING GLASS WKS. MUSKOGEE PLANT	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD007221831	FANSTEEL METALS	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD072414741	FORT HOWARD PAPER CO LANDFILL	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD000395186	GT METALS	MUSKOGEE	MUSKOGEE	OK	Not NPL
OK0000605198	HOLLIFIELD AUTO SALVAGE	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD987067931	HUGGINS RESIDENCE	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD980750400	JW WORLEY BATTERY SHOP	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD987096237	LONG, JOHN, SMELTERS & REFINERS	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD032994345	MADEWELL METAL DISPOSAL SITE - MUSKOGEE	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD987096252	MUSKOGEE BRICK	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD980696728	MUSKOGEE ENVIRONMENTAL FLY ASH DISPOSAL	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD980795678	SINCLAIR OIL & REFINING CO TOPPING PLANT	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD980696355	SMOKES INDUSTRIES	MUSKOGEE	MUSKOGEE	OK	Not NPL
OKD987096575	THREE FORKS	MUSKOGEE	MUSKOGEE	OK	Not NPL

OKD032997496	YAFFEE IRON & METAL COMPANY	MUSKOGEE	MUSKOGEE	OK	Not NPL
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Displaying sites 1 through 19

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[Actions](#) | [Contaminants](#) | [Site-Specific Documents](#)

This site has been archived from the inventory of active sites.

Site Name: FANSTEEL METALS
Street: 10 TANTALUM PLACE
City / State / ZIP: MUSKOGEE, OK 74401

NPL Status: Not on the NPL
Non-NPL Status: NFRAP

EPA ID: OKD007221831
EPA Region: 06
County: MUSKOGEE

Federal Facility Flag: Not a Federal Facility
Incident Category: Other

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Superfund Site Information

FANSTEEL METALS

Actions

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<u>OU</u>	<u>Action Name</u>	<u>Qualifier</u>	<u>Lead</u>	<u>Actual Start</u>	<u>Actual Completion</u>
00	PRELIMINARY ASSESSMENT	H	S	07/01/1980	07/01/1980
00	DISCOVERY		F		09/01/1980
00	SITE INSPECTION	N	F	06/01/1981	06/01/1981
00	ARCHIVE SITE		EP		10/25/1990
00	NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH	VP	EP	12/04/2001	12/06/2001

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State of: OKLAHOMA

EPA-ID	FACILITY NAME	LOCATION ADDRESS	CITY	ZIP	COUNTY/ PARISH	S G E N	T R E N	O P N	P R R	RECEIVED DATE
OKD000044909	THOMAS MARINE/PREDATOR BOAT Contact: NORMA STILES	HWY 69S & I-40 1.5M S Mailing Addr: PO BOX 295 RT 4, CHECOTAH, OK 74426	CHECOTAH	74426	MCINTOSH	3		P		10/28/93
OKD980624571	WABASH ALLOYS INC Contact: THOMAS R HENDON	100 E APEX ROAD Mailing Addr: 9200 CALUMET, MUNSTER, IN 46321	CHECOTAH	74426	MCINTOSH	6		P		10/06/99
OKR000016113	WAL-MART STORE # 340 Contact: MORRIS SHRUM	1110 W GENTRY Mailing Addr: 702 SW 8TH STREET, BENTONVILLE, AR 72716	CHECOTAH	74426	MCINTOSH	3		P		12/26/01
OKD987088267	DP MFG INC Contact: WAYNE PRUITT	1200 BIRKES RD Mailing Addr: 1200 BIRKES RD, EUFAULA, OK 74432	EUFAULA	74432	MCINTOSH	3		P		03/10/92
OKR000020990	WEST BAY EXPLORATION Contact:	OAK GROVE ROAD NEAR N40 Mailing Addr: OAK GROVE ROAD NEAR N4070 RD, EUFAULA, OK 74432	EUFAULA	74432	MCINTOSH		U			05/08/06
OKD987085636	HANNA PUBLIC SCHOOL Contact: MAX DUNCAN	2ND & HULIS Mailing Addr: PO BOX H, HANNA, OK 74845	HANNA	74845	MCINTOSH	6		P		09/09/91
OKD980598452	AMERICAN TEL & TEL CO LONG LIN Contact: DENNI CLEVELAND	10M NW L441500 Mailing Addr: 811 MAIN STREET ROOM 939, KANSAS CITY, MO 64141	DAVIS	73030	MURRAY	6		P		04/15/81
OKR000008664	DOLESE BROS CO DAVIS QUARRY Contact: EDDIE TAYLOR	HWY 7 1M W OF I-35 & 2M Mailing Addr: ROUTE 1 BOX 16, DAVIS, OK 73030	DAVIS	73030	MURRAY	7		P		04/23/03
OKD0096143037	HANOVER Contact: CARL L RATCHFORD	801 INDUSTRIAL PARK S Mailing Addr: 801 INDUSTRIAL PARK S, DAVIS, OK 73030	DAVIS	73030	MURRAY	2		P		06/30/06
OKR000004333	JB SERVICES COILTECH - DAVIS Contact: JO ANN COBB	HWY 77 ONE MILE S Mailing Addr: 11211 FM 2920, TOMBALL, TX 77375	DAVIS	73030	MURRAY	7		P		01/24/00
OKD987083474	NEOLAMP INC Contact: PHIL MATLOCK	205 E CURTIS Mailing Addr: PO BOX 207, DAVIS, OK 73030	DAVIS	73030	MURRAY	7		P		01/20/94
OKD981607708	SENTINEL TRANSPORTATION INC Contact: CHARLES PRESTON	HWY 30 1M E Mailing Addr: 3521 SILVERSIDE RD, WILMINGTON, DE 19810	DAVIS	73030	MURRAY	7		P		10/06/99
OKD000770602	SUN OIL CO BILLESBACH Contact: GM EUBANKS	2 MI N 2 MI E Mailing Addr: PO BOX 3800, TULSA, OK 74102	DAVIS	73030	MURRAY	6		P		08/18/80
OKD000770719	SUN OIL CO DRAKE -A- Contact: GM EUBANKS	4 MI N 2 MI E Mailing Addr: PO BOX 3800, TULSA, OK 74102	DAVIS	73030	MURRAY	6		P		08/18/80
OKD000770784	SUN OIL CO JAMESON Contact: GM EUBANKS	4 MI N 2 MI E Mailing Addr: PO BOX 3800, TULSA, OK 74102	DAVIS	73030	MURRAY	6		P		08/18/80
OKD000770818	SUN OIL CO LEDBETTER Contact: GM EUBANKS	3 MI N 2 MI E Mailing Addr: PO BOX 3800, TULSA, OK 74102	DAVIS	73030	MURRAY	6		P		08/18/80
OKD000770826	SUN OIL CO LOW Contact: GM EUBANKS	4 MI N 2 MI E Mailing Addr: PO BOX 3800, TULSA, OK 74102	DAVIS	73030	MURRAY	6		P		08/18/80

State of: OKLAHOMA

EPA-ID	FACILITY NAME	LOCATION ADDRESS	CITY	ZIP	COUNTY/ PARISH	S G E N	T R A N	O O P N	W P N	R R R	RECEIVED DATE
OKD000770701	SUN OIL CO LOW COLLINS Contact: GM EUBANKS	4 MI N 2 MI E Mailing Addr: PO BOX 3800, TULSA, OK 74102	DAVIS	73030	MURRAY	6		P			08/18/80
OKD000770875	SUN OIL CO NE DAVIS UNIT Contact: GM EUBANKS	3 MI N 2 MI E Mailing Addr: PO BOX 3800, TULSA, OK 74102	DAVIS	73030	MURRAY	6		P			08/18/80
OKD0077331494	ARTESIAN HOME INC Contact:	1415 W 15TH Mailing Addr: 1415 W 15TH, SULPHUR, OK 73086	SULPHUR	73086	MURRAY	8					07/09/80
OKR000000760	BRADEN MOTOR CO Contact: DON BRADEN	W 1ST STREET AT MUSKOGEE Mailing Addr: BOX 639, SULPHUR, OK 73086	SULPHUR	73086	MURRAY	3		P			07/25/95
OKR000018051	CHICKASAW NATIONAL RECREATION Contact: ROSALIND JONES	1008 W 2ND ST Mailing Addr: 1008 W 2ND ST, SULPHUR, OK 73086	SULPHUR	73086	MURRAY	2		P			11/04/02
OKD000763466	OG & E ELECTRIC SRVCS Contact: MICHAEL HUGHES	1M N ON HWY 177 Mailing Addr: PO BOX 18A RT 2, KONAWA, OK 74849	SULPHUR	73086	MURRAY	3		P			10/30/95
OKD0033102690	SUNOCO SERVICE STATION Contact: KARL BECKERS	1ST & BROADWAY Mailing Addr: 1ST & BROADWAY, SULPHUR, OK 73086	SULPHUR	73086	MURRAY	6					08/18/80
OKD981909187	WAL-MART STORE # 225 Contact: TROY ROBERTS	2118 W BROADWAY Mailing Addr: 702 SW 8TH ST, BENTONVILLE, AR 72716	SULPHUR	73086	MURRAY	3		P			12/26/01
OKD987097581	WAYNE EIDSON CHEVY Contact: DAVID WOODS	HWY 7 W Mailing Addr: PO BOX 271, SULPHUR, OK 73086	SULPHUR	73086	MURRAY	2		P			01/24/00
OKD982561060	OKLA ARMY NATL GUARD CAMP GR Contact: BILL ROBINSON	HWY 10 12M S H-62 Mailing Addr: PO BOX 128, BRAGGS, OK 74423	BRAGGS	74423	MUSKOGEE	3		F			06/06/91
OKD000763490	O. G. & E. MUSKOGEE GENERATING Contact: CHARLES A SMITHSON	5501 THREE FORKS ROAD Mailing Addr: 5501 THREE FORKS ROAD, FORT GIBSON, OK 74434	FORT GIBSON	74434	MUSKOGEE	3		P			02/06/04
OKD987084340	ARKHOLA SAND & GRAVEL Contact: MILTON NELSON	E OF JUNCT 62 & 10 ASPHA Mailing Addr: PO BOX 188, FT GIBSON, OK 74434	FT GIBSON	74434	MUSKOGEE	3		P			07/15/91
OKR000001404	FORT GIBSON POWERHOUSE Contact: JAMES HARRIS	HWY 251-A 5M NW Mailing Addr: RT 1 BOX 4000, FT GIBSON, OK 74434	FT GIBSON	74434	MUSKOGEE	3		F			03/08/96
OKD038085457	OPTRONICS INC Contact: RALPH SCHRADER	350 N WHEELER Mailing Addr: 350 N WHEELER, FT GIBSON, OK 74434	FT GIBSON	74434	MUSKOGEE	6		P			08/18/80
OKR000014464	SIMMONS S METAL CONTAINER Contact: DENNIS PORTELLO	103 E BERGE RD Mailing Addr: 103 E BERGE RD, FT GIBSON, OK 74434	FT GIBSON	74434	MUSKOGEE	3		P			02/22/06
OK0000369298	SOUTH TEXAS CAN-OKLAHOMA DIV Contact: ROBERT BOWMAN	1702 S LEE ST Mailing Addr: 1702 S LEE ST, FORT GIBSON, OK 74434	FT GIBSON	74434	MUSKOGEE	3		P			06/17/94
OKD981911365	COUNTRYSIDE AUTOMOTIVE Contact: HAKIM A. JAMEEL	HWY 104 LM E & .25M N OF Mailing Addr: PO BOX 222, HASKELL, OK 74436	HASKELL	74436	MUSKOGEE	7		P			06/05/87

S T
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N N TSDF N R
6 P 08/18/80
6 P 08/18/80
8 P 07/09/80
3 P 07/25/95
2 P P 11/04/02
3 P 10/30/95
6 P 08/18/80
3 P 12/26/01
2 P 01/24/00
3 P 06/06/91
3 P P 02/06/04
3 P 07/15/91
3 F 03/08/96
6 P 08/18/80
3 P P 02/22/06
3 P 06/17/94
7 P 06/05/87
Phone: 9184823555

* * * FOR INTERNAL USE ONLY * * *

RCRA NOTIFIERS LISTING

Source: USEPA RCRAInfo Database

Report run on: December 18, 2006 8:09 AM
 Report Title: 06notifiers_list_v3.rdf

State of: OKLAHOMA

EPA-ID	FACILITY NAME	LOCATION ADDRESS	CITY	ZIP	COUNTY/ PARISH	S G E N	T R A N	O P E R	W T S D F	P N R	RECEIVED DATE
OKD987085867	GREENWAY TRANSPORTATION INC	HWY 64 6 M NW CORNER Mailing Addr: RT 2 PO BOX 71G, HASKELL, OK 74436	HASKELL	74436	MUSKOGEE						03/09/98
OKR000003822	O & O TRUCKING	2 M W & 2 M S ON SKELLY Mailing Addr: PO BOX 81, HASKELL, OK 74436	HASKELL	74436	MUSKOGEE		Y	P			11/18/97
OKD000771337	SUN OIL CO B C WILLIAMS	2 MI S 2 MI W Mailing Addr: PO BOX 3800, TULSA, OK 74102	MCCLAIN	73080	MUSKOGEE	8		P			08/18/80
OKD000771345	SUN OIL CO B C WILLIAMS -A-	2 MI S 2 MI W Mailing Addr: PO BOX 3800, TULSA, OK 74102	MCCLAIN	73080	MUSKOGEE	8		P			08/18/80
OKD000771238	SUN OIL CO C MASTERSON	1 MI S 2 M E Mailing Addr: PO BOX 3800, TULSA, OK 74102	MCCLAIN	73080	MUSKOGEE	6		P			08/18/80
OKD000771097	SUN OIL CO EAST CRINER BROMIDE	2 MI E Mailing Addr: PO BOX 3800, TULSA, OK 74102	MCCLAIN	73080	MUSKOGEE	6		P			08/18/80
OKD000771105	SUN OIL CO EVANS	1M SE Mailing Addr: PO BOX 3800, TULSA, OK 74102	MCCLAIN	73080	MUSKOGEE	6		P			08/18/80
OKD000771188	SUN OIL CO LINDLEY B BROMIDE U	2 MI S 2 MI E Mailing Addr: PO BOX 3800, TULSA, OK 74102	MCCLAIN	73080	MUSKOGEE	6		P			08/18/80
OKD000771196	SUN OIL CO LINDLEY B HUNTON UN	2M S 2M E Mailing Addr: PO BOX 3800, TULSA, OK 74102	MCCLAIN	73080	MUSKOGEE	6		P			08/18/80
OKD000771089	SUN OIL CO O CROXTON	3 MI S 2 MI E Mailing Addr: PO BOX 3800, TULSA, OK 74102	MCCLAIN	73080	MUSKOGEE	6		P			08/18/80
OKD000771295	SUN OIL CO O L PETERS COMPL	2 M S 2 MI W Mailing Addr: PO BOX 3800, TULSA, OK 74102	MCCLAIN	73080	MUSKOGEE	8		P			08/18/80
OKD000771063	SUN OIL CO R G ANDERSON	2 MI S 2 MI W Mailing Addr: PO BOX 3800, TULSA, OK 74102	MCCLAIN	73080	MUSKOGEE	6		P			08/18/80
OKD000771139	SUN OIL CO REAS HANLEY	3M SE 1M E Mailing Addr: PO BOX 3800, TULSA, OK 74102	MCCLAIN	73080	MUSKOGEE	6		P			08/18/80
OKD000771329	SUN OIL CO SCHONWALD SWD FAC	2 MI S 3 MI W Mailing Addr: PO BOX 3800, TULSA, OK 74102	MCCLAIN	73080	MUSKOGEE	6		P			08/18/80
OKD000771303	SUN OIL CO SW CRINER COMP FAC	2 MI E Mailing Addr: PO BOX 3800, TULSA, OK 74102	MCCLAIN	73080	MUSKOGEE	6		P			08/18/80
OKD007224280	ACME ENGINEERING & MFG CORP EP	1820 N YORK	MUSKOGEE	74403	MUSKOGEE	3		P			03/21/00
OKR0000228072	ACME ENGINEERING APD DIV	2631 PORT FL	MUSKOGEE	74403	MUSKOGEE	7	U	P	P		07/30/03
	CHARLES FERGUSON	Mailing Addr: PO BOX 978, MUSKOGEE, OK 74402	MUSKOGEE	74403	MUSKOGEE						Phone: 9186827791

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OKR000008623	ADVANCE WARNINGS Contact: GARY LAXTON	2500 S 32ND ST Mailing Addr: PO BOX 1911, MUSKOGEE, OK 74401	MUSKOGEE	74403	MUSKOGEE	2		P		12/11/06
OKD98706897	ALL STATE ELECTRIC MOTOR Contact: ED RIVARO	1730 N 11TH Mailing Addr: 1730 N 11TH, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	7		P		10/26/89
OKR000007021	AMERICAN FOUNDRY Contact: PHILLIP DURLAND	612 S 45TH E Mailing Addr: 612 S 45TH E, MUSKOGEE, OK 74402	MUSKOGEE	74402	MUSKOGEE					04/29/99
OKD981610413	AMERICAN TECHNICAL INSTITUTE Contact: CHERYL-L HENSLEY	2509 S 32ND Mailing Addr: PO BOX 614, MUSKOGEE, OK 74402	MUSKOGEE	74402	MUSKOGEE	7		P		10/09/86
OKD032990202	ARCHER CLEANERS Contact: JOHN-G ARCHER	700 W OKMULGEE Mailing Addr: 700 W OKMULGEE, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P		11/26/85
OKD981148273	ARCHER CLEANERS Contact: JOHN-G ARCHER	625 N YORK Mailing Addr: 625 N YORK, MUSKOGEE, OK 74403	MUSKOGEE	74403	MUSKOGEE	3		P		11/26/85
OKD061636296	ARKHOLA MUSKOGEE GLASS SAND PL Contact: JOHN SULCER	HIGHWAY 69 NT & ARKANSAS Mailing Addr: PO BOX 1401, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	8		P		08/18/80
OKD981151970	BENNETT-LISTER AMC-JEEP Contact: JERRY GOLDEN	1400 N MAIN STREET Mailing Addr: P O BOX 2609, MUSKOGEE, OK 74402	MUSKOGEE	74402	MUSKOGEE	6		P		01/31/86
OKD980748826	BJ TITAN SVCS Contact: JIM BENNETT	1341 W SHAWNEE Mailing Addr: PO BOX 1555, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	6		P		12/21/82
OKD007044142	BLYTEVILLE CANNING CO Contact: JIMMY DIEHL	1900 NORTH STREET Mailing Addr: PO BOX 475, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	6		P		08/18/80
OKR000014886	BORAL BRICKS OF TEXAS LP Contact: CHRISTOPHER SPRALIDY	3101 W 53RD STREET S Mailing Addr: 3101 W 53RD STREET S, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P		05/08/01
OKD981903719	BREWSTERS PAINT & BO/SH Contact: KEITH RAY BREWSTER	FURN MOUNTAIN RD 4.5MI W Mailing Addr: RT 3 BOX 318A, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P		02/09/87
OKD198951634	C & K EQUIPMENT Contact: FRED BIBBER	1215 S 32ND Mailing Addr: 1215 S 32ND, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P		10/26/89
OKD987087061	CHURCHILL TRUCK LINES INC Contact: DAVID EDWARDS	520 S B ST Mailing Addr: 520 S B ST, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P		12/19/91
OKD001940105	COBURN OPTICAL INDUSTRIES Contact: DOUG HENDRICKS	1701 S CHEROKEE Mailing Addr: PO BOX 627, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	7		P		01/26/05
OKD987070422	COBURN OPTICAL INDUSTRIES Contact: DOUG HENDRICKS	2012 ANDERSON DR Mailing Addr: PO BOX 627, MUSKOGEE, OK 74402	MUSKOGEE	74403	MUSKOGEE	3		P		03/27/90
OKD032991457	CONDLEY SERVICE STATION Contact: THURMAN CONDLEY	129 EAST SIDE BLVD Mailing Addr: 129 EAST SIDE BLVD, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	6				08/18/80

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						N	N	N	N	N	D A T E
OKD007227200	CONTAINER CORPORATION OF AMERI Contact: DUANE MASON	SHAWNEE & RIDGE ROAD Mailing Addr: P O BOX 858, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	8		P			08/18/80
OKD007227192	CORNING GLASS WORKS Contact: MELSEE JONES	1500 SUMMIT Mailing Addr: 1500 SUMMIT, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P			11/19/80
OK0000623256	COURTESY CHEV GEO HONDA Contact: JAMES POTETT	104 KAAD Mailing Addr: PO BOX 2729, MUSKOGEE, OK 74401	MUSKOGEE	74403	MUSKOGEE	7		P			08/15/94
OKD981908908	COURTESY MOTORS INC Contact: JOHN SIMON	3143 N 32ND Mailing Addr: 3143 N 32ND, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	7		P			05/29/91
OK0000716720	D & O BODY SHOP Contact: DANNY CUOZZO	200 E MARTIN LUTHER KING Mailing Addr: 200 E MARTIN LUTHER KING, MUSKOGEE, OK 74403	MUSKOGEE	74403	MUSKOGEE	3		P			08/29/94
OKR000019398	DAL ITALIA LLC Contact: JOE GENET	3801 DAL TILE RD Mailing Addr: 3801 DAL TILE RD, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3	U	P	P		10/27/04
OKD080582430	DANIEL CONSTRUCTION COMPANY Contact: STEVE GREENE	900 E. 56TH STREET Mailing Addr: P.O. BOX 2549, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	6		P			07/17/84
OKD007221831	FANSTEEL METALS Contact: JAMES-A PIERRET	10 TANTALUM PL Mailing Addr: 10 TANTALUM PLACE, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	6		P	P		08/05/80
OKD032996456	FASHION CLEANERS Contact: JOHN PANGBURN	711 EASTSIDE BLVD Mailing Addr: 711 EASTSIDE BLVD, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P			01/02/87
OKD007219165	FORMER PROGRALV INC Contact: JERRY EMANUEL	420 FRANKFORT AVE Mailing Addr: 420 FRANKFORT AVE, MUSKOGEE, OK 74403	MUSKOGEE	74403	MUSKOGEE	7		P			01/09/06
OKD987098159	FORMER WAL-MART STORE # 130 Contact: MIKE EBERT	2412 E SHAWNEE Mailing Addr: 702 SW 8TH ST, BENTONVILLE, AR 72716	MUSKOGEE	74403	MUSKOGEE	7		P			02/01/05
OKR000001891	FORMER WATERLOO INDUSTRIES, IN Contact: MATTHEW J SOMMERS	300 S. 45TH ST. EAST Mailing Addr: 100 E 4TH ST, WATERLOO, IA 50703	MUSKOGEE	74402	MUSKOGEE	7		P			07/12/05
OKD072414741	FORT JAMES OPERATING CO Contact: DUSTIN GIVENS	4901 E CHANDLER RD Mailing Addr: 4901 E CHANDLER RD, MUSKOGEE, OK 74403	MUSKOGEE	74403	MUSKOGEE	2		P	P		01/09/98
OKD987082641	FRONTIER TERMINAL Contact: DAVID PUNNETT	N 48TH AND CHANDLER RD Mailing Addr: PO BOX 701497, TULSA, OK 74107	MUSKOGEE	74403	MUSKOGEE	7		P			03/12/91
OKD102424413	GRANT PRIDECO TCA PRODUCTS Contact: JOY STAFFORD	3800 PORT PLACE Mailing Addr: 3800 PORT PLACE, MUSKOGEE, OK 74403	MUSKOGEE	74403	MUSKOGEE	7	U	P	P		05/07/03
OKD981595143	INDIAN CAPITOL VOTECH Contact: CURTIS BRACKEN	NW 45TH & 2 BLKS N ON HW Mailing Addr: RT 6 BOX 206, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P			11/07/86
OK0000246090	INTEGRATED MEDICAL RESOURCES Contact: GLENN ASBELL	701 W HANCOCK Mailing Addr: 701 W HANCOCK, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P			04/29/94

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OKD04494946	JAMES HODGE FORD LINC & MERC Contact: WILLY KEIFER	1200 N MAIN Mailing Addr: 1200 N MAIN, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P			07/09/91
OKR000004127	LAKE COUNTRY CHEVROLET Contact: LARRY GRAY	144 W SHAWNEE Mailing Addr: 144 W SHAWNEE, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	2		P			12/15/06
OKD032994345	MADEWELL METALS CORP Contact: ELMO MADEWELL	301 E SHAWNEE Mailing Addr: PO BOX 1432, MUSKOGEE, OK 74402	MUSKOGEE	74401	MUSKOGEE	7		P			11/17/80
OKD987086683	METALS CONTROL OF OKLAHOMA INC Contact: LEE NORMAN	4720 HAYES S ST Mailing Addr: 4720 HAYES S ST, MUSKOGEE, OK 74402	MUSKOGEE	74402	MUSKOGEE	7		P			11/14/91
OKD987086964	METALS CONTROL OF OKLAHOMA INC Contact: PARTY UNKNOWN	4402 HAYES Mailing Addr: PO BOX 2514, MUSKOGEE, OK 74402	MUSKOGEE	74402	MUSKOGEE	7		P			12/27/92
OKD089774087	MUSKOGEE BONE AND JOINT CLINIC Contact: PHILLIP KIZZIA	209 S 36TH Mailing Addr: 209 S 36TH, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P			05/12/86
OKD049070147	MUSKOGEE BRIDGE CO Contact: CURTIS SMITH	THREE MILE RD Mailing Addr: PO BOX 798, MUSKOGEE, OK 74402	MUSKOGEE	74403	MUSKOGEE	3		P			08/09/89
OKD115093163	MUSKOGEE BRIDGE CO INC Contact: CINDY MARSHALL	5100 E HANCOCK Mailing Addr: PO BOX 798, MUSKOGEE, OK 74402	MUSKOGEE	74402	MUSKOGEE	3		P			10/31/89
OKD000632794	MUSKOGEE CITY OF WASTE TREATME Contact: GENE KERNES	E HANCOCK STREET Mailing Addr: BOX 1927, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	6		P			09/02/80
OKR000000422	MUSKOGEE DAILY PHOENIX Contact: JOHN MCARTHY	214 WALL ST Mailing Addr: 214 WALL ST, MUSKOGEE, OK 74402	MUSKOGEE	74402	MUSKOGEE	3		P			05/08/95
OKR000004218	MUSKOGEE WASTE AND WATER CO Contact: ANDREW FLAKE	1111 WEWOKA Mailing Addr: 3219 S 39TH ST, FORT SMITH, AR 72903	MUSKOGEE	74401	MUSKOGEE	3		P			03/27/98
OKD987084639	OG & E ELECTRIC SVCS Contact: MICHAEL HUGHES	2301 S 24TH W Mailing Addr: PO BOX 1689, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P			10/30/95
OKR000017483	OKIECHEM INC Contact: PETE WOMACK	2009 W SHAWNEE Mailing Addr: 2009 W SHAWNEE, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	7		P	O		02/06/03
OKD981610538	OKLA DOT Contact: DALE HALFACRE	3200 S 32ND Mailing Addr: BOX 1069, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		S			10/09/86
OKK0000057745	OKLAHOMA INSTALLATION CO Contact: RANDY DILLMAN	501 N MAIN ST STE 74 Mailing Addr: PO BOX 740, OWASSO, OK 74055	MUSKOGEE	74401	MUSKOGEE	3		P			11/12/93
OKD007222805	OWENS BROCKWAY GLASS CONTAINER Contact: MIKE S BENNETT	YORK ST & SHAWNEE ST Mailing Addr: P O BOX 8, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P	P		09/21/06
OKR000015875	PARAGON INDUSTRIES Contact: JAKE YARBROUGH	4631 HAROLD SCOGGINS DR Mailing Addr: 4631 HAROLD SCOGGINS DR, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	2		P			02/16/01

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OKD981590284	PARISIAN CLEANERS CO INC. Contact: MIKE VOEGELI	316 COURT Mailing Addr: PO BOX 1366, MUSKOGEE, OK 74402	MUSKOGEE	74401	MUSKOGEE	3		P		08/29/86
OKR000001339	PENSKE AUTO CENTER Contact: DAVID TATUM	4 E SHAWNEE ST STE B Mailing Addr: 3270 W BIG BEAVER RD, TROY, MI 48084	MUSKOGEE	74403	MUSKOGEE	3		P		12/11/95
OKD987069515	PENSKE TRUCK LEASING CO L P Contact: RANDY LEE	131 S 41ST ST E Mailing Addr: 131 S 41ST ST E, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P		01/30/90
OKD096640347	PORT CITY BODY SHOP Contact: BRUCE-E THOMPSON	622 N MAIN Mailing Addr: 622 N MAIN, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P		01/24/02
OKD007217474	ROYAL CASKET CO INC Contact: WILLIAM BOIES	302 N MAIN Mailing Addr: 302 N MAIN, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	6		P		06/30/80
OKD980583751	RYDER TRUCK RENTAL Contact: CHARLES BEEN	1001 S C ST Mailing Addr: 1001 S C ST, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P		03/16/81
OKD987072048	SCHRADER-BRIDGEPORT INTL Contact: DAVID HARDING	500 SE 48TH STREET Mailing Addr: PO BOX 769, MUSKOGEE, OK 74402	MUSKOGEE	74403	MUSKOGEE	3		P		07/07/98
OKR000001792	SEARS NO 2045 Contact: MARGARET WHITNEY	NO 2 ARROWHEAD MALL Mailing Addr: 3333 BEVERLY RD D824C, HOFFMAN ESTATES, IL 60179	MUSKOGEE	74401	MUSKOGEE	3		P		04/01/98
OKD094036290	SEARS ROEBUCK COMPANY Contact: BILL ZINCK	425 W BROADWAY Mailing Addr: 425 W BROADWAY, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	6		P		06/02/81
OKR000002139	SEM MATERIALS MUSKOGEE PLANT Contact: GLENN WALDROP	2501 PORT PLACE Mailing Addr: 2501 PORT PLACE, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	3		P		03/08/06
OKD080600208	SHERWIN WILLIAMS CO Contact: TERRY MORS	232 EASTSIDE BLVD Mailing Addr: 232 EASTSIDE BLVD, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	6		P		08/18/80
OKD981058662	SOLA OPTICAL USA INC Contact: KENNETH ALESSI	3451 SOUTHERN HEIGHTS DR Mailing Addr: 3451 SOUTHERN HEIGHTS DR, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	6		P		07/18/95
OKR000006155	SOUTHERN MATERIAL HANDLING CO Contact: CALVIN BAKEL	601 N 41ST ST EAST Mailing Addr: 601 N 41ST ST EAST, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	2		P		02/04/02
OKD00719500	SUN OIL CO PENN-DBA B & A SUPP Contact: KARL BECKERS	1152 N YORK Mailing Addr: 1152 N YORK, MUSKOGEE, OK 74401	MUSKOGEE	74401	MUSKOGEE	6		P		08/18/80
OKD051049971	TERRY MILLER PONTIAC Contact: BRIAN WILLIAMS	1600 N MAIN Mailing Addr: 1600 N MAIN, MUSKOGEE, OK 74402	MUSKOGEE	74402	MUSKOGEE	7		P		10/20/00
OKR000001800	TERRY MILLER PONTIAC Contact: BRIAN WILLIAMS	602 W BROADWAY Mailing Addr: PO BOX 7016, MUSKOGEE, OK 74402	MUSKOGEE	74401	MUSKOGEE	7		P		03/04/98
OKD981611973	TERRY-MILLER PONTIAC-GMC TRUCK Contact: TERRY MILLER	540 COURT ST Mailing Addr: P.O. BOX 7016, MUSKOGEE, OK 74402	MUSKOGEE	74401	MUSKOGEE	3		P		06/28/91

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OKD078640034	THREE RIVERS STEEL CO INC Contact: STEPHEN CRANK	HANCOCK AT NAT IRISH FRW Mailing Addr: BOX 386, MUSKOGEE, OK 74401	MUSKOGEE MUSKOGEE, OK 74401	74401	MUSKOGEE	6		P			06/26/80
OKD981907603	TOYOTA OF MUSKOGEE Contact: AARON DUVALL	1330 N MAIN Mailing Addr: 1330 N. MAIN, MUSKOGEE, OK 74401	MUSKOGEE MUSKOGEE, OK 74401	74401	MUSKOGEE	2		P			12/15/98
OKD096635875	TRUCKS-FOR-YOU INC Contact: ROBERT WAGGONER	3303 N 32ND ST Mailing Addr: PO BOX AH, MUSKOGEE, OK 74401	MUSKOGEE MUSKOGEE, OK 74401	74402	MUSKOGEE	3		P			01/31/86
OKD097285118	TURNER BROTHERS INC. Contact: GEORGE SWISHER	2300 32ND ST. Mailing Addr: P.O. BOX 447, MUSKOGEE, OK 74401	MUSKOGEE MUSKOGEE, OK 74401	74401	MUSKOGEE	7		P			01/31/86
OKR000015750	UNIQUE AUTO REPAIR Contact: JAMES KELTON	3923 W BROADWAY Mailing Addr: 3923 W BROADWAY, MUSKOGEE, OK 74401	MUSKOGEE MUSKOGEE, OK 74401	74401	MUSKOGEE	3		P			11/23/00
OKR000015313	UNITED PARCEL SERVICE (MUSKOGEE) Contact: TYE ROBINSON	1005 W SHAWNEE Mailing Addr: 901 S PORTLAND AVE, OKLAHOMA CITY, OK 73108	MUSKOGEE MUSKOGEE, OK 74401	74401	MUSKOGEE	3		P			02/22/00
OKK3143120761	US DOE SOUTHWEST POWER MUSKOGEE Contact: UNKNOWN UNKNOWN	1409 W SHAWNEE STREET Mailing Addr: PO BOX 1569, MUSKOGEE, OK 74401	MUSKOGEE MUSKOGEE, OK 74401	74401	MUSKOGEE	6		F	F		08/06/80
OKK2360007304	US VA MEDICAL CENTER MUSKOGEE Contact: ELDON SCHOONOVER	HONOR HEIGHTS DR .75M W Mailing Addr: HONOR HEIGHTS DR., MUSKOGEE, OK 74401	MUSKOGEE MUSKOGEE, OK 74401	74401	MUSKOGEE	6		F	F		03/24/87
OKK1210022504	USARC ALTON M. ASHWORTH Contact: JAMES WHEELER	1806 N YORK ST Mailing Addr: 1806 N YORK ST, MUSKOGEE, OK 74403	MUSKOGEE MUSKOGEE, OK 74403	74403	MUSKOGEE	3		F	F		10/01/03
OKR000020024	WAL-MART SUPERCENTER # 130 Contact: PAULINE LASSITER	1000 W SHAWNEE ST Mailing Addr: 702 SW 8TH ST, BENTONVILLE, AR 72716	MUSKOGEE MUSKOGEE, OK 74401	74403	MUSKOGEE	3		P	P		06/25/04
OKD032997496	YAFFE IRON & METAL CO INC Contact: BILL CALE	G ST & LEXINGTON AVE Mailing Addr: BOX 916, MUSKOGEE, OK 74401	MUSKOGEE MUSKOGEE, OK 74401	74401	MUSKOGEE	2		P	P		08/18/80
OKD990751059	ZAPATA INDUSTRIES INC Contact: HARRY O MELLON	4400 DON CAYO DRIVE Mailing Addr: 4400 DON CAYO DRIVE, MUSKOGEE, OK 74403	MUSKOGEE MUSKOGEE, OK 74403	74403	MUSKOGEE	7		P	P		02/25/05
OKS960012024	US ARMY COE EUFAULA LAKE POWER Contact: JAMES HARRIS	HWY 71 1.5M S Mailing Addr: RT 2 BOX 137AA, FORUM, OK 74455	FORUM FORUM, OK 74455	74455	MUSKOGEE	3		F	F		04/05/92
OKS960012016	US ARMY COE EUFAULA PROJECT OF Contact: JAMES HARRIS	HWY 71 13M SW Mailing Addr: RT 4 BOX 259, STIGLER, OK 74462	FORUM STIGLER, OK 74462	74455	MUSKOGEE	3		F	F		04/06/92
OKD987093457	TAFT VOTECH SKILLS CNTR Contact: TOM COLLEY	HWY 64 8M W 2M N HWY 64 Mailing Addr: PO BOX AA, TAFT, OK 74463	TAFT TAFT, OK 74463	74463	MUSKOGEE	3		S	S		06/02/92
OKD033158106	HORNE SPRAY CO INC Contact: UNKNOWN UNKNOWN	HWY 100 Mailing Addr: PO BOX 218, WEBBERS FALLS, OK 74470	WEBBERS FALLS WEBBERS FALLS, OK 74470	74470	MUSKOGEE	6					08/08/80
OKD987082237	SRS INC Contact: ROBERT ROSS	412 COMMERCIAL ST Mailing Addr: PO BOX 119, WEBBERS FALLS, OK 74470	WEBBERS FALLS WEBBERS FALLS, OK 74470	74470	MUSKOGEE	3		P	P		02/12/91

RCRA Notifiers Listing

Report Date: December 18, 2006 8:09 AM

User Selection Criteria:

Activity Location: OKLAHOMA	EPA ID:
Facility Name:	
State District:	
County/Parish Code or Name:	
City:	Zip Code:
Address:	
Owner/Operator Type:	
Generator Selection:	
Tranporter Selection:	
Operating TSDf Selection:	
North American Industry Classification System (NAICS) Code	
Include Contact information: Yes	
Sort Selection: Sorted by County, City, Facility Name, EPA-ID	

Report Results:

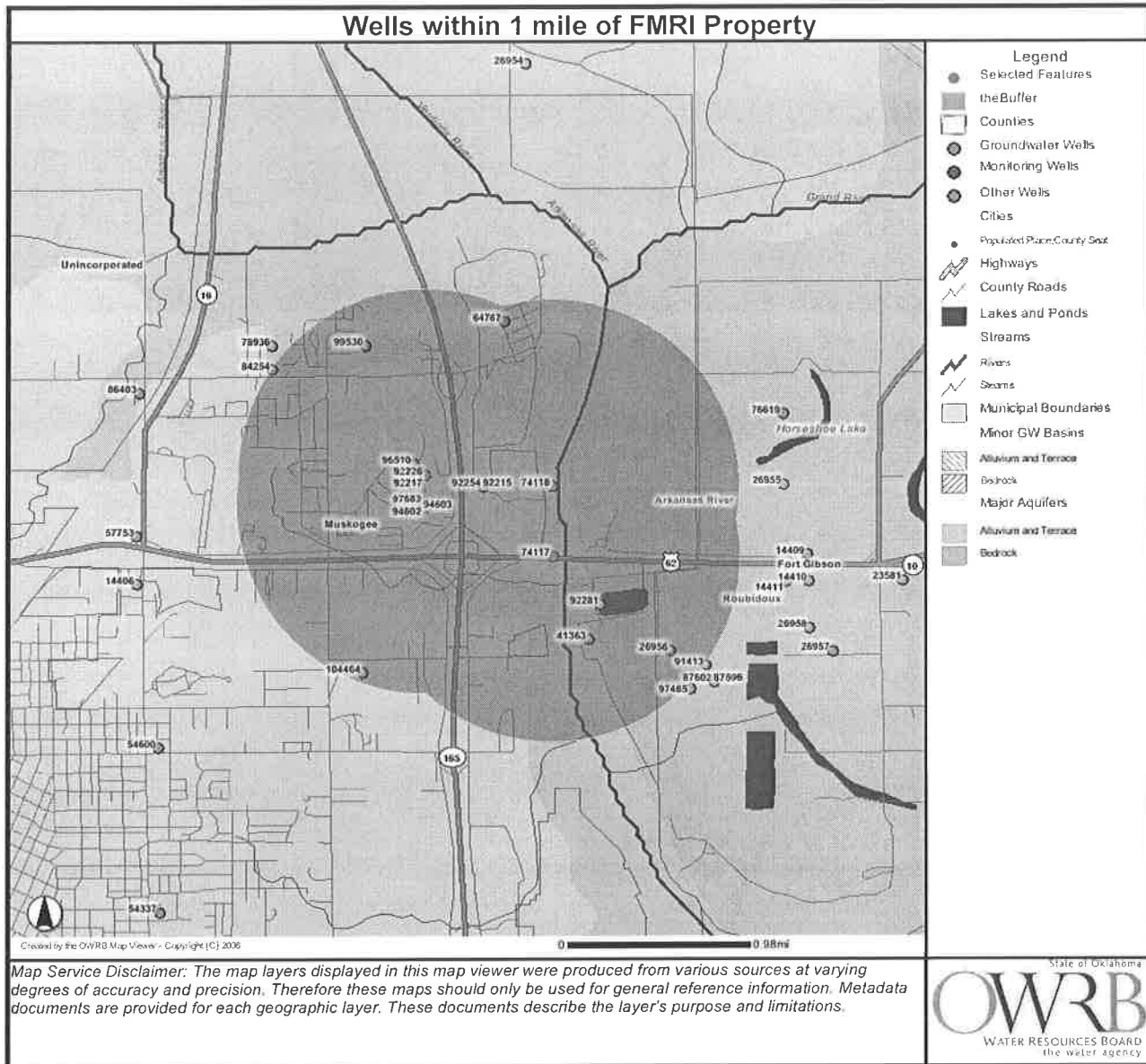
Data meeting the criteria you selected follows.

Report Description:

This report provides information concerning RCRA facilities that have the Extract_Flag is set to "X".

Report Information:

Name:	06notifiers_list_v3.rdf
Developed by:	US EPA Region 6, Dallas TX
Deployed:	January 2003
Last Revised:	December 2005
Contact:	jones.buddy-m@epa.gov



Reported Well Logs

Rec	Latitude	Longitude	Well ID	County	Well Type	Permit Number	Quarter 1	Quarter 2	Q
1	35.775931	-95.308175	92215	Muskogee	Groundwater Test Hole		NW	NE	S
2	35.78684	-95.319338	99530	Muskogee	Geothermal or Heat Pump Well		NE	SW	S
3	35.763162	-95.290403	26956	Muskogee	Groundwater Well		SW	SE	N
4	35.770509	-95.301556	74117	Muskogee	Monitoring Well		SE	SW	S
5	35.776835	-95.313743	92216	Muskogee	Groundwater Test Hole		NW	NE	S
6	35.777739	-95.314857	96510	Muskogee	Groundwater Well		SE	SE	N
7	35.7746333	-95.3139167	94602	Muskogee	Monitoring Well		SE	NE	S
8	35.7744	-95.3137833	97682	Muskogee	Monitoring Well		SE	NE	S
9	35.766776	-95.297084	92281	Muskogee	Groundwater Well		SE	NE	N
10	35.7743333	-95.3137833	94603	Muskogee	Monitoring Well		SE	NE	S
11	35.7747	-95.3139	97683	Muskogee	Monitoring Well		SE	NE	S
12	35.775931	-95.308175	92254	Muskogee	Groundwater Test Hole		NW	NE	S
13	35.775931	-95.301556	74116	Muskogee	Monitoring Well		NE	NW	S
14	35.776835	-95.313743	92217	Muskogee	Groundwater Test Hole		NW	NE	S
15	35.776835	-95.313743	92226	Muskogee	Monitoring Well		NW	NE	S
16	35.764066	-95.298197	41363	Muskogee	Groundwater Well			SE	N
17	35.788647	-95.305971	64767	Muskogee	Geotechnical Boring		SE	NE	S

ATTACHMENT 3

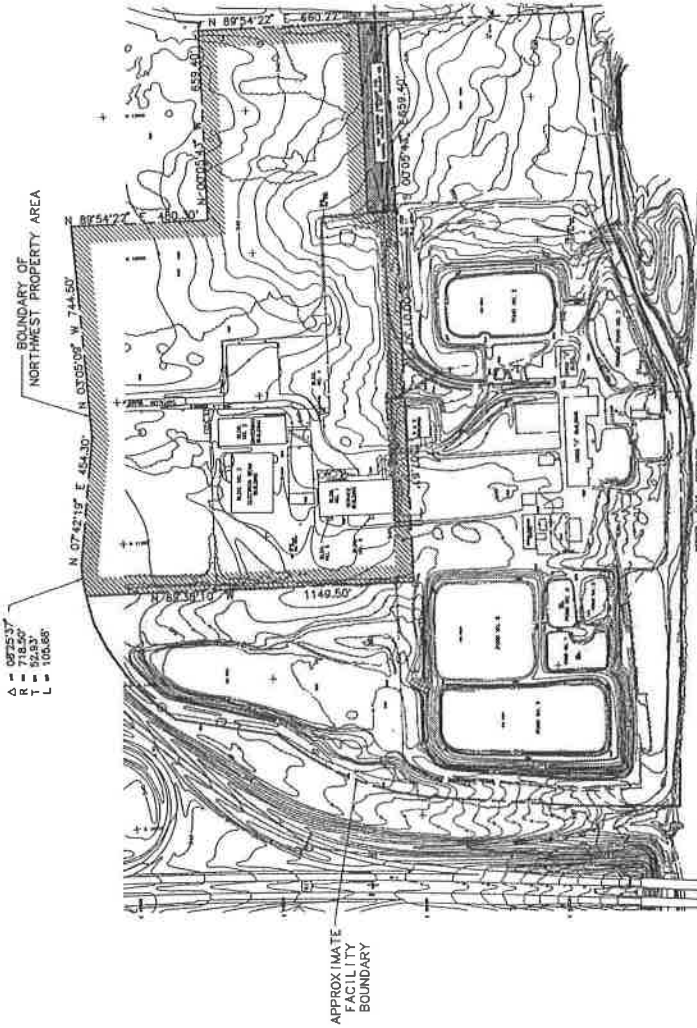
NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee MRI 1. Fansteel, Inc.		3. License Number SMB-911, Amendment 1^d
2. Number ^{Ten} One Tantalum Place North Chicago, Illinois 60064 Muskogee, Oklahoma 74403		4. Expiration Date September 30, 2002 5. Pocket No. 40-7580 Reference No.
6. Byproduct Source, and/or Special Nuclear Material Natural uranium and thorium A. Natural Uranium B. Natural Thorium C. Natural Uranium D. Natural Thorium	7. Chemical and/or Physical Form Any Tin slags, ores, concentrates, process residues, and uranium oxides Tin slags, ores, concentrates, process residues, and thorium hydroxide As a contaminant in soil and sediment As a contaminant in soil and sediment	8. Maximum amount that Licensee May Possess at Any One Time Under This License 400 tons as elemental uranium and thorium A. 73,000 kg uranium B. 71,000 kg thorium C. 4,000 kg uranium D. 2,500 kg thorium
9. Authorized place of use: The licensee's existing facilities at Muskogee, Oklahoma. The portion of the Fansteel Property identified as the Northwest Property in Figure 2, Dwg. No. 0111210, of the licensee's Additional Radiation Survey Activities Report dated December 1995, and as defined by the legal description provided thereon, is released from the restrictions of this license. This release is based on the statements and representations made in the application dated July 8, 1993, and supplements dated December 28, 1993; May 24, July 27, and December 1, 1994; December 18, 1995; and March 16, 1996.		



LEGEND

- FACILITY BOUNDARY
- ▨ NORTHWEST PROPERTY AREA



**FANSTEEL METALS
NORTHWEST PROPERTY AREA
LEGAL DESCRIPTION**

A TRACT OR PARCEL OF LAND LOCATED IN THE NE/4 OF THE SE/4 AND THE SE/4 OF THE SE/4 OF THE NE/4, BOTH IN SECTION 17, TOWNSHIP 15 NORTH, RANGE 19 EAST OF THE INDIAN BASE AND MERIDIAN, MUSKOGEE COUNTY, OKLAHOMA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT THAT IS THE NE CORNER OF THE SE/4 OF THE AFORESAID SECTION 17; THENCE S00°01'30"E A DISTANCE OF 1,307.61 FEET TO A POINT; THENCE N89°38'10"W A DISTANCE OF 1,149.50 FEET TO A POINT OF INTERSECTION WITH THE EASTERLY RIGHT-OF-WAY BOUNDARY OF S. H. 165; THENCE ALONG A CURVE TO THE NW ON SAID RIGHT-OF-WAY, SAID CURVE NOT BEING TANGENTIAL TO THE LAST DESCRIBED POINT, HAVING AN ARC DISTANCE OF 505.55 FEET, LENGTH OF CHORD BEARING OF N08°48'14"W, CHORD DISTANCE OF 505.55 FEET, BEARING OF THE CHORD BEARING OF N08°48'14"W, THENCE CONTINUING ALONG SAID RIGHT-OF-WAY N07°42'19"E A DISTANCE OF 451.30 FEET TO A POINT, THENCE CONTINUING ALONG SAID RIGHT-OF-WAY N03°05'08"W A DISTANCE OF 744.50 FEET TO A POINT; THENCE N89°54'22"E A DISTANCE OF 480.30 FEET TO A POINT; THENCE N00°05'43"W A DISTANCE OF 659.40 FEET TO A POINT; THENCE N89°54'22"E A DISTANCE OF 660.22 FEET TO A POINT ON THE EAST BOUNDARY OF THE SE/4 OF THE NE/4; THENCE S00°05'43"E ALONG SAID EAST BOUNDARY A DISTANCE OF 659.40 FEET TO THE POINT OF BEGINNING. CONTAINS 4.71 ACRES, LESS AN EASEMENT FOR RAILROAD RIGHT-OF-WAY TO THE KANSAS OKLAHOMA, AND GULF RAILWAY COMPANY, DESCRIBED AS THE EAST 100.00 FEET OF THE SE/4 OF THE NE/4 OF THE AFORESAID SECTION 17.

REFERENCE

SURVEY DATA PROVIDED BY
NEWELL-MALLOY & ASSOCIATES
CONSULTING ENGINEERS-SURVEYORS-PLANNERS.

**FIGURE 2
SITE PLAN
NORTHWEST PROPERTY AREA
FANSTEEL METALS
MUSKOGEE, OKLAHOMA**

PREPARED FOR
**KIRKPATRICK & LOCKHART
PITTSBURGH, PENNSYLVANIA**



Earth Sciences Consultants, Inc.

APPROVED *[Signature]* 12-17-72
CHECKED *[Signature]* 12-14-72
DRAWN *[Signature]* 02/12/2003

DRAWING NUMBER
0111210

REVISION	DATE	DESCRIPTION

911026

17-15-17

WARRANTY DEED

STATE OF OKLAHOMA
MUSKOGEE COUNTY
FILED OR RECORDED

no fee

Know All Men by These Presents:

JUN 21 3 35 PM '99

That FANSTEEL, INC., a Delaware Corporation as Successor to FANSTEEL METALLURGICAL CORPORATION, a New York Corporation with its principal place of business at No. One ~~Antalun~~ ^{Antalun} Place, North Chicago, Illinois, party of the first part, in consideration of the sum of TEN DOLLARS (\$10.00) and other valuable consideration in hand paid, the receipt of which is hereby acknowledged, do hereby Grant, Bargain, Sell and Convey unto MUSKOGEE CITY-COUNTY PORT AUTHORITY, an Agency of the State of Oklahoma, party of the second part, the following described real property and premises situate in Muskogee County, State of Oklahoma, to-wit:

KARLE H. ANDERSON
COUNTY CLERK

*4901 Harold Scoggins Dr.
Muskogee, OK 74400*

A tract of land located in the East Half of Section 17, Township 15 North, Range 19 East, Muskogee County, State of Oklahoma, more particularly described as follows: Beginning at a point that is S89°54'22"W a distance of 45 feet from the Northeast corner of the Southeast Quarter of said Section 17; thence S00°01'30"E a distance of 437.77 feet; thence S89°20'45"W a distance of 1071.40 feet; thence N03°05'09"W a distance of 448.85 feet; thence N89°54'22"E a distance of 480.30 feet; thence N00°05'43"W a distance of 660.00 feet; thence N89°54'22"E a distance of 560.00 feet; thence S00°05'43"E a distance of 660.00 feet; thence N89°54'22"E a distance of 55.00 feet to the point of beginning.


2645 140
BOOK PAGE

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 encumbrances of whatsoever nature.

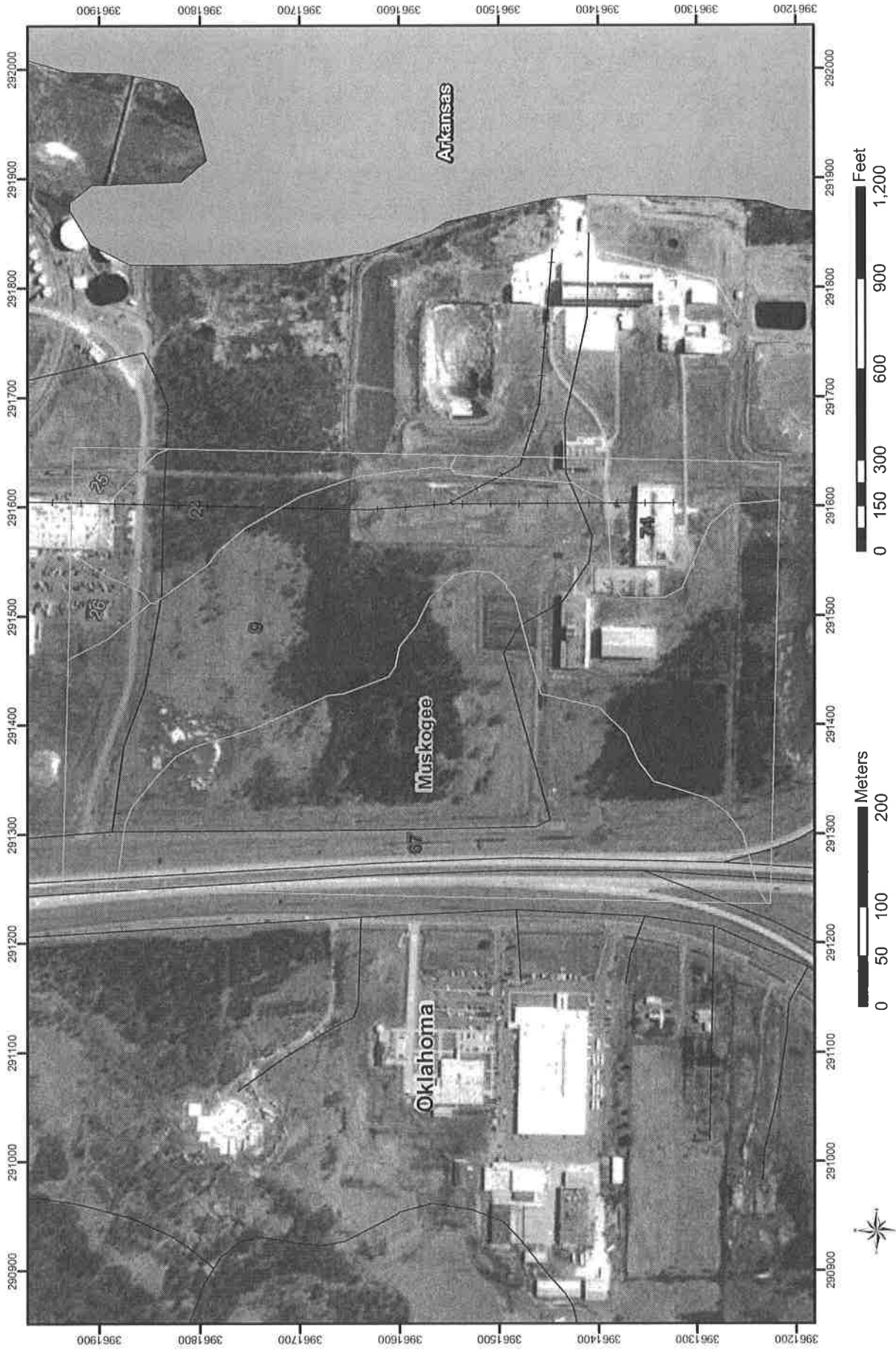
SIGNED AND DELIVERED this 17th day of June, 1999.

FANSTEEL INC., a Delaware Corporation
as Successor to FANSTEEL METALLURGICAL CORPORATION, a New York Corporation

By: 
Vice President

SOIL SURVEY OF MUSKOGEE COUNTY, OKLAHOMA

FMRI Northwest Property Area



SOIL SURVEY OF MUSKOGEE COUNTY, OKLAHOMA

EMRI Northwest Property Area

MAP LEGEND

-  Soil Map Units
-  Cities
-  Detailed Counties
-  Detailed States
-  Interstate Highways
-  Roads
-  Rails
-  Water
-  Hydrography
-  Oceans
-  Escarpment, bedrock
-  Escarpment, non-bedrock
-  Gully
-  Levee
-  Slope
-  Blowout
-  Borrow Pit
-  Clay Spot
-  Depression, closed
-  Eroded Spot
-  Gravel Pit
-  Gravelly Spot
-  Gully
-  Lava Flow
-  Landfill
-  Marsh or Swamp
-  Miscellaneous Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Slide or Slip
-  Sinkhole
-  Sodic Spot
-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Perennial Water
-  Wet Spot

MAP INFORMATION

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>

Coordinate System: UTM Zone 15

Soil Survey Area: Muskogee County, Oklahoma
 Spatial Version of Data: 2

Soil Map Compilation Scale: 1:24000

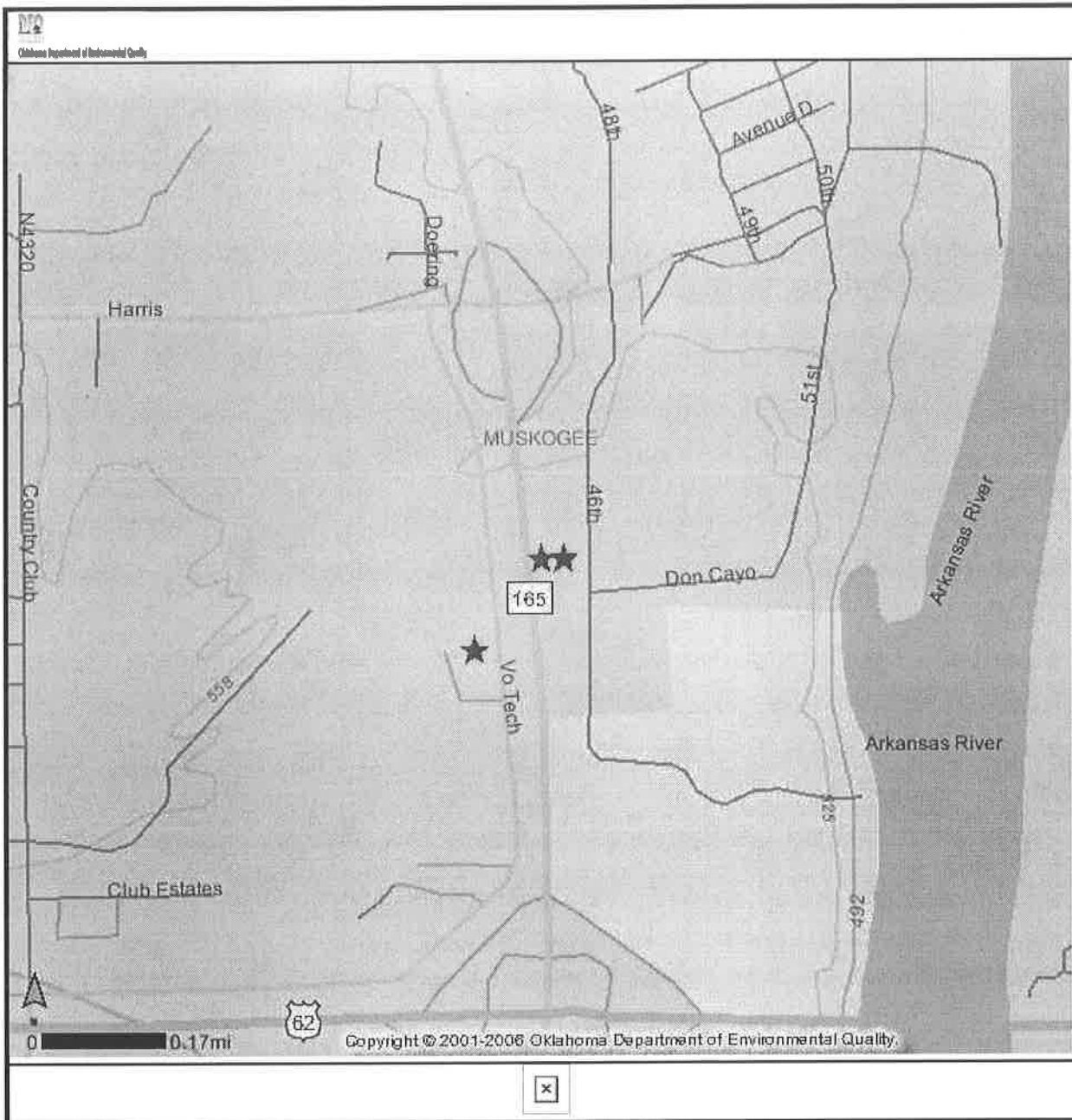
Map comprised of aerial images photographed on these dates:
 1995

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

Map Unit Legend Summary

Muskogee County, Oklahoma

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
9	Choteau loam, 1 to 3 percent slopes	35.5	45.4
24	Kamie fine sandy loam, 1 to 3 percent slopes	5.9	7.6
25	Kamie fine sandy loam, 3 to 5 percent slopes	1.2	1.5
26	Kamie fine sandy loam, 3 to 8 percent slopes, gullied	1.2	1.5
67	Stigler silt loam, 0 to 1 percent slopes	29.5	37.7
74	Urban land	4.9	6.3



Well Query

WELL SEARCH BASIC PREV. OPER. PERMITS COMPLETIONS PRODUCTION PLUGGING ? EXIT WELL SEARCH

SEARCH RESULTS

Record Count = 3

View	Record	Save	API #	Operator #	Well Name	Well #	Class	OG	UC	ITD	Sec	Twp	Rng	M	Section	Call
Doc	Log	Save	101 09414	09998 0	STEADMAH	1		UN			17	15N	19E	IM		NE
Doc	Log	Save	101 02776	09998 0	RATLEY	1		UN			17	15N	19E	IM	NE	NE
Doc	Log	Save	101 02777	09998 0	RATLEY FARM	1		UN			17	15N	19E	IM	N2	NE
Doc	Log	Save														
Doc	Log	Save														
Doc	Log	Save														
Doc	Log	Save														
Doc	Log	Save														
Doc	Log	Save														
Doc	Log	Save														
Doc	Log	Save														

Save Queried Data ?

- View All Basic Info
- View All ITDs
- View All Production
- View All Operators

Operator Browser

Exempt Until Date

Lease Number

Search by Well Information

Cancel Search

Record Count = 3

View	Save	API #	Operator #	Well Name	Well #	Class	OG	UIC	ITD	Seq.	Twp	Rng	M.	Section	Calls
Doc Log	Save	101 00414	09998	STEADMAN	1	UN			17	16N	19E	IM		NE	NE
Doc Log	Save	101 02776	09998	RATLEY	1	UN			17	15N	19E	IM		NE	NE
Doc Log	Save	101 02777	09998	RATLEY FARM	1	UN			17	15N	19E	IM		N2	NE
Doc Log	Save														
Doc Log	Save														
Doc Log	Save														
Doc Log	Save														
Doc Log	Save														
Doc Log	Save														
Doc Log	Save														

Exempt Until Date

Operator Browse

Lease Number

Search by Well Information

Cancel Search

Save Queried Data

View All Basic Info

View All ITDs

View All Production

View All Operators

Completions

COMPLETIONS BASIC PREV. OPER. PERMITS COMPLETIONS PRODUCTION PLUGGING ? RETURN COMPLETIONS

View Documents	Comp. Date	S	Type	Class	Comp. Type	Soud Date	Drill End Date	First Prod Date
	05-APR-1928							

Basic Orders Plugs/Packers Prod. Forms Logs/Survs. Formations Csg/Conent Bottom Holes

API Number: 101 02776 Legal Location: 17 15N 19E IM Quarters: NE NE NE

Operator Name: OAKLAND DR.L.G-RA Number: 09998 Depth: 0 PRTN: Surface Footages:

Well Name: RATLEY Well No.: 1 Drilling Type: Dir Survey Received: CO2 Encountered: Depths:

Multiple Zone: Appl Rcvd: Incr Density: H2S Encountered: Depths:

Comminged: Appl Rcvd: Location Exception: Approved Date:

Elevation: Bond Log Required(Y/N): Approved(Y/N): Confidential Logs Extension(Y/N): Relect Date:

Bond Log Received Date: Confidential Logs Expiration:

User Modified: Were Electric Logs Run?

Date Modified: 04-APR-1904 Run Date: 06-OCT-1979 Received Date: Service Company:

Log Remarks:

Well Basic															
BASIC		PREV. OPER.		PERMITS		COMPLETIONS		PRODUCTION		PLUGGING		RETURN		BASIC	
Basic Well Information						Current Operator Information									
API Number		Ind.		API Resolved to		Legal Location				Quarters					
101	02776	<input type="checkbox"/>				17	15N	19E	IM	<input type="checkbox"/>	NE	NE	NE		
Operator Name		Number		Effective Date		Surface Footages									
OTC-OCC NO ASSIGNED		09958	0	22-JUN-1992		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Well Name		Well No.		County		Code		Dist.							
RATLEY		1		MUSKOGEE		101		4							
OTC Prod Unit		Calculated		Latitude				Longitude							
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Y	35° 46' 58.1" N				-95° 18' 28.86" W							
1003A Expiration Date								Elevation							
State Lease		OG Well Status		Class.		Source Code									
<input type="checkbox"/>		UN				P									
Federal Gov.		UIC Status		Permit Status		Transaction ID									
<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>											
User Modified															
Date Modified															
04-APR-1994															

Completions COMPLETIONS

View Documents	Comp. Date	S	Type	Class	Comp. Type	Squad Date	Drill End Date	First Prod Date
	08-AUG-1978							

API Number

Operator Name

Well Name

Legal Location
 17 15N 19E IM NE NE NE

Number **Depth**

Well No. **Drilling Type**

Surface Footages

Dir Survey Received N

CO2 Encountered **Depths**

H2S Encountered **Depths**

Multiple Zone N **Appl Rcvd** N **Incr Density** N

Commingled N **Appl Rcvd** N **Location Exception** N **Approved Date**

Elevation **Bond Log Required(Y/N)** N **Approved(Y/N)** N **Confidential Logs Extension(Y/N)** N **Reject Date**

User Modified
 Were Electric Logs Run? N

Date Modified **Run Date** **Received Date** **Service Company**

Log Remarks

Well Basic											
BASIC		NEW OPER	PERMITS	COMPLETIONS	PRODUCTION	PLUGGING	?	RETURN	BASIC		
Basic Well Information						Current Operator Information					
API Number	Ind.	API Resolved to		Legal Location				Quarters			
101 02777	<input type="checkbox"/>			17	15N	19E	IM	<input type="checkbox"/>	N2	NE	NE
Operator Name	Number		Effective Date				Surface Footages				
OTC-OCC NO ASSIGNED	09998 0		22-JUN-1992								
Well Name	Well No.	County				Code	Dist.				
RATLEY FARM	1	MUSKOGEE				101	1				
OTC Prod Unit	Calculated		Latitude				Longitude				
<input type="checkbox"/> <input type="checkbox"/> 0	<input checked="" type="checkbox"/> Y		35° 46' 58.1" N 95° 18' 24.67" W				Elevation				
1003A Expiration Date											<input type="checkbox"/>
State Lease	OG Well Status			Class				Source Code			
<input type="checkbox"/>	<input checked="" type="checkbox"/> UN			<input type="checkbox"/>				<input checked="" type="checkbox"/> P			
Federal Gov.	UIC Status			Permit Status				Transaction ID			
<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>				<input type="checkbox"/>			
User Modified	<input type="text"/>										
Date Modified	04-APR-1994										

Completions

COMPLETIONS

BASIC PREVIOUS PERMITS COMPLETIONS PROTECTION PLUGGING ? RETURN COMPLETIONS

View Documents

Comp. Date	S	Type	Class	Comp. Type	Soud Date	Drill End Date	First Prod Date
01-JAN-1991							

Basic Orders Plugs/Packers Prod. Forms Logs/Survs. Formations Csg/Cement Bottom Holes

API Number: 101 02777

Operator Name: OTC-OCC NO ASSIGNED

Well Name: RATLEY FARM

Well No.: 1

Legal Location: 17 15N 19E IM

Quarters: N2 NE NE

Number: 08998

Depth: 0

Drilling Type: PRTD

Dir Survey Received: N

Surface Footings: [] [] []

CO2 Encountered: []

H2S Encountered: []

Multiple Zone: N

Appl Rcvd: N

Incr Density: N

Commingled: N

Appl Rcvd: N

Location Exception: N

Approved Date: []

Elevation: []

Bond Log Required(Y/N): N

Bond Log Received Date: []

Approved(Y/N): N

Confidential Logs Extension(Y/N): N

Confidential Logs Expiration: []

Reject Date: []

User Modified: []

Were Electric Logs Run? []

Date Modified: 04-APR-1994

Run Date: 06-OCT-1979

Received Date: []

Service Company: []

Log Remarks: []

Completions								
COMPLETIONS								
View Documents	Comp. Date	S	Type	Class	Comp. Type	Sound Date	Drill End Date	First Prod Date
	28-AUG-1928							

Basic	Orders	Plugs/Packers	Prod. Forms	Logs/Survs.	Formations	Csg/Cement	Bottom Holes
-------	--------	---------------	-------------	-------------	------------	------------	--------------

API Number		Legal Location			Quarters	
101	00414	17	15N	19E	IM	NE NE
Operator Name		Number	0	Depth	PRTD	Surface Footages
RAHS WW		09998				200 N 200 E
Well Name		Well No.	Drilling Type	Dir Survey Received	CO2 Encountered Depths	
STEADMAN		1		<input type="checkbox"/>		
Multiple Zone	Appl Rcvd	Incr Density	H2S Encountered Depths			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Commingled	Appl Rcvd	Location Exception	Approved Date			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Elevation	Bond Log Required(Y/N)	Approved(Y/N)	Confidential Logs Extension(Y/N)		Reject Date	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	Bond Log Received Date		Confidential Logs Expiration			
User Modified	Were Electric Logs Run?					
BACH						
Date Modified	Run Date	Received Date	Service Company			
02-MAY-1987	05-OCT-1979					
Log Remarks						

Well Basic															
BASIC		PREV OPER		PERMITS		COMPLETIONS		PRODUCTION		LOGGING		RETURN		BASIC	
Basic Well Information						Current Operator Information									
API Number		Ind.		API Resolved to		Legal Location				Quarters					
101 00414		<input type="checkbox"/>				17 15N 19E IM				<input type="checkbox"/> NE <input type="checkbox"/> NE					
Operator Name				Number		Effective Date		Surface Footages							
OTC-OCC NO ASSIGNED				09998 0		22-JUN-1992		200 N 200 E							
Well Name				Well No.		County				Code		Dist.			
STEADMAN				1		MUSKOGEE				101		1			
OTC Prod Unit				Calculated		Latitude				Longitude					
<input type="checkbox"/> <input type="checkbox"/> 0				<input type="checkbox"/> Y		35° 46' 54.83" N 95° 10' 24.87" W									
1003A Expiration Date						Elevation									
State Lease		OG Well Status		Class		Source Code									
<input type="checkbox"/>		<input type="checkbox"/> UN		<input type="checkbox"/>		<input type="checkbox"/> P									
Federal Gov.		UIC Status		Permit Status		Transaction ID									
<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/> ADD									
User Modified		Date Modified													
BACH		02-MAY-1987													

Completions							
COMPLETIONS							
View Documents	Conn. Date	S	Type	Class	Comp. Date	Soud Date	Drill End Date
	28-AUG-1928						

Basic	Orders	Plugs/Packers	Prod. Forms	Logs/Survs.	Formations	Cog/Cement	Bottom Holes
-------	--------	---------------	-------------	-------------	------------	------------	--------------

API Number	101 00414		Legal Location	17 15N 19E	IM	Quarters	NE NE
Operator Name	RAHNS WW		Number	09998	0	Depth	
Well Name	STEADMAN		Well No.	1	Drilling Type	Dir Survey Received	H
Multiple Zone	<input type="checkbox"/>	App'l Rcv'd	<input type="checkbox"/>	Incr Density	<input type="checkbox"/>	H2S Encountered	Depths
Commingled	<input type="checkbox"/>	App'l Rcv'd	<input type="checkbox"/>	Location Exception	<input type="checkbox"/>	Approved Date	
Elevation		Bond Log Required(Y/N)	<input type="checkbox"/> N	Approved(Y/N)	<input type="checkbox"/> N	Confidential Logs Extension(Y/N)	<input type="checkbox"/> H
User Modified	BACH	Bond Log Received Date		Confidential Logs Expiration		Reject Date	
Date Modified	02-MAY-1987	Were Electric Logs Run?		Service Company			
Log Remarks							

Appendix F

Interview Documentation

REPORT OF CONTACT

Contact Type: Site tour and visit, Northwest Area Contact Date: September 27, 2005

Record of Conversation with: James Burgess

Title:

Affiliation: FMRI, Inc.

Subject: Interview and site tour, Northwest area of FMRI Property, Muskogee, OK.

We met with Mr. Burgess at approximately 10:30. Mr. Burgess invited us to look around the outdoors in the Northwest Area (i.e. the area excluded from the NRC license) then meet him when ready to visit the Warehouse Building, the Electron Beam Building, and the Sintering Building. The Warehouse Building is under lease to a metal fabricating operation, and Mr. Burgess introduced us to the manager, Mark Grindstaff, who gave Mr. Burgess permission to show us through the building. Mr. Burgess told us the warehouse building was used to store raw materials, including the ore or slag on rare occasions, and to store products (i.e. powder or bars of tantalum and columbium), and also contained a laboratory and machine shop for the plant.

Mr. Flynn and I then explored the southern portion of the Northwest Area, specifically the area south of the property transferred to the Muskogee City/County Port Authority. Mr. Flynn took measurements using a radiation counter, and I logged locations of measurements and photographs on a Trimble GPS device (Unit #79). Figure 1 shows the locations of the outdoor measurements, and Figure 2 shows the actual outdoor measurements.

Mr. Burgess then showed us through the Warehouse Building (no photographs allowed in the leased portion, but G-M meter readings were consistently "background" (0.03 millirem/hr). Operations in the warehouse building appear to consist of fabrication, assembly and painting of metal frames. I did not see any containers of paints or solvents, or smell any unusual odors. Mr. Burgess also showed us a conference room used as a public information area, with a display (Figures 3 & 4) showing the steps of processing ore or slag to obtain tantalum or columbium metal powder or ingots.

The laboratory portion of the Warehouse Building, according to Mr. Burgess, is not included in the lease. The laboratory was used for various purposes, including checks on the extraction process, environmental testing, and others. This area also included rest rooms and showers. The ceramic tiles in the men's rest room gave the only above-background readings (10 millirem/hr) observed during the site visit. No containers were observed in the laboratory area.

The Sintering Building is where metal powder was pressed into bars or rods using hydraulic presses, and then heated under vacuum to sinter (fuse) the metal powder to add strength. The building is currently used to store super sacks and drums of various materials, including alumina powder, granular ammonium bifluoride, sodium hydroxide,

quicklime and others. Several Super Sacks showed signs of spillage, and the building had an ammonia-like odor, and Mr. Burgess made a point about airing out the building for us. Mr. Burgess explained that some of the materials were process reagents accumulated in anticipation of being able to process the Work-In-Progress (WIP) material, and now available for sale instead, while other materials were for drying the WIP for shipment to Utah for disposal. Mr. Burgess suggested we talk to Mr. Payne about getting an inventory or list of materials stored in the Sintering Building.

One room on the north side of the Sintering Building contained several large cooling water pumps, to cool parts of the sintering furnaces, such as electrodes, etc. Mr. Burgess said the cooling water was recirculated after being run through cooling towers. Another room was for milling and classification of tantalum hydride, which was then converted back to tantalum by removal of the hydrogen. Deposits of dark gray powder were visible on the walls, which according to Mr. Burgess are tantalum powder trapped between furniture and the wall when the room was cleaned, then revealed when the furniture was removed. Like many metals in powder form, tantalum powder can burn.

Another room at the northwest corner of the Sintering Building contains a metalworking shop, including a lathe and a vacuum chamber. Vacuum pumps were not observed but may have been present in the past.

In the Electron Beam Building, large rods of sintered tantalum metal were heated in a vacuum with electron beams, and the melted metal then cooled as ingots. The electrodes were water-cooled, with a reservoir of cooling water in an underground tank under the west side of the building, under removable floor plates. Mr. Burgess did not know what anti-fouling agents were used in the cooling water. The building was mostly empty, although empty drums, some furniture, and a few appliances are stored near the north end. The building has an overhead bridge-type crane running on rails mounted high on the walls. No unusual odors were observed in the building.

JPTD 10/3/2005



Outdoor Locations Visited
 FMRI Northwest Area
 Targeted Brownfield Assessment
 Muskogee City/County Port Authority

Figure 1 Approximate Locations of Outdoor Radiation Measurements

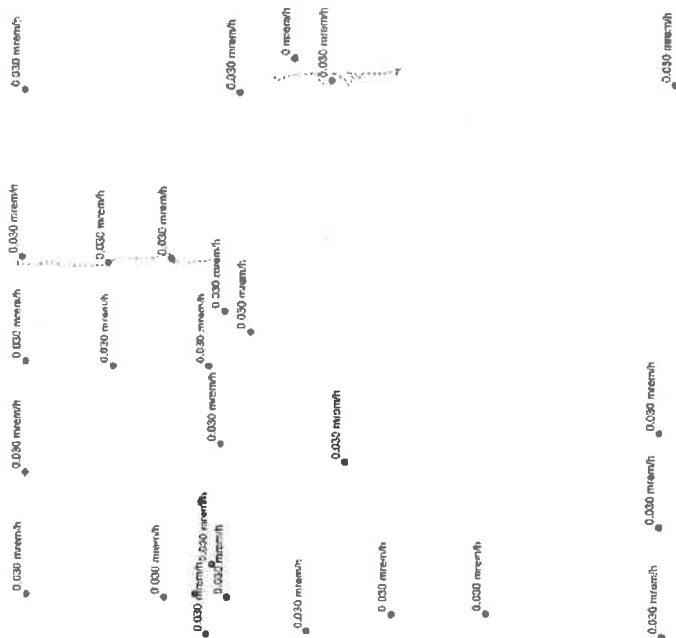


Figure 2 Outdoor Radiation Measurements using Geiger-Mueller Detector

(see Figure 1 for location context)

Note consistent readings across site area.

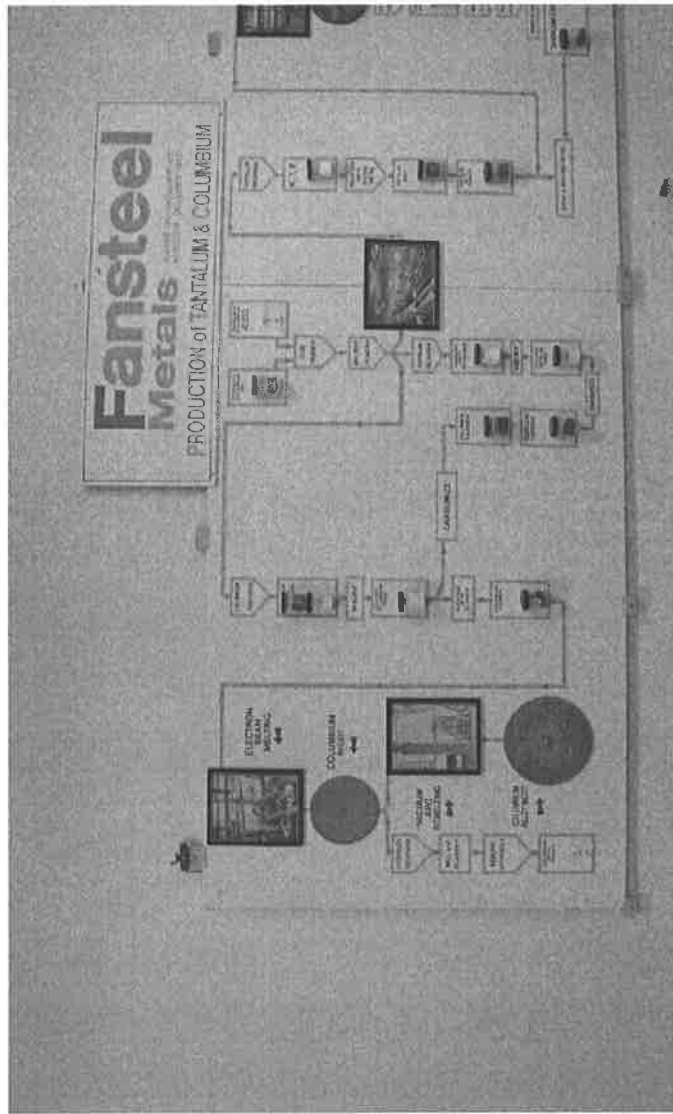
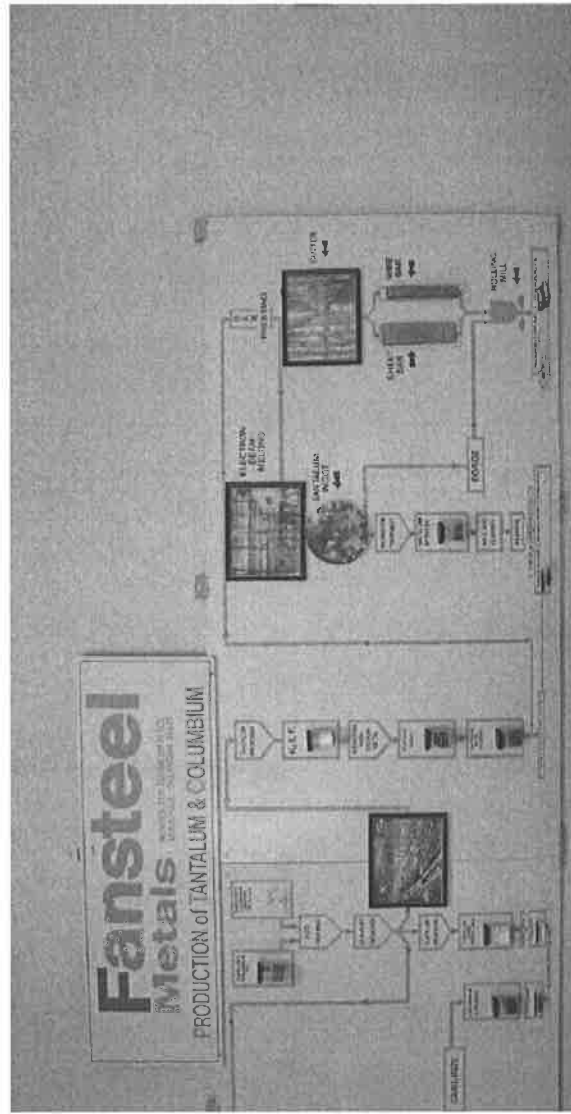


Figure 3 Process Display in Public Information Area



REPORT OF CONTACT

Contact Type: Telephone Interview Contact Date: 12/05/2005

Record of Conversation with: Mark Grindstaff

Title: President

Affiliation: AI International.

10 Tantalum Place
Muskogee, OK 74403

(918) 681-4900

Subject: Occupant Interview, Targeted Brownfield Assessment of FMIR/Fansteel Northwest Property, Muskogee City/County Port Authority

AI International designs and creates metal frame parts, by cutting, drilling and/or welding the parts, then sending them offsite to be powder-coated by a contractor in Broken Arrow. They began leasing the warehouse portion of the former Fansteel Metals Plant Service Building, plus parking space ("the property") in June 2005.

Mr. Grindstaff confirmed that the building and adjoining property was used in the past and is currently used, for industrial use. Mr. Grindstaff did not know if the property or adjoining property had been used as a gas station, motor repair facility, drycleaners, photo developer, landfill, or used as a treatment, storage or disposal facility.

Mr. Grindstaff confirmed that he was not currently aware of, nor had he seen indications of in the past, damaged or discarded industrial or automotive batteries, pesticides, paints or other chemicals, in individual containers larger than 5 gallons or in aggregate more than 50 gallons stored or used on the property.

Mr. Grindstaff confirmed that he was not currently aware of, nor had he seen indications of in the past, any industrial drums or sacks of chemicals on the property.

Mr. Grindstaff confirmed that he was not aware of fill dirt brought onto the property from a contaminated site or from an unknown origin, and was not aware of any pits ponds or lagoons on the property currently or in the past.

Mr. Grindstaff confirmed that he was aware of pipes sticking out of the ground, i.e. monitor wells, but not of fill or vent pipes.

Mr. Grindstaff said that he believes the facility uses a public water supply.

Mr. Grindstaff confirmed that he did not know of any environmental liens or government notification with respect to the property, and that he had not been informed of the current or past existence of hazardous substances or petroleum products on the property, except that he had been told the property had been contaminated, but had been cleaned up and released for use.

Mr. Grindstaff confirmed he did not know of previous environmental assessment work on the property.

Mr. Grindstaff confirmed that he was not aware of any past, threatened or pending lawsuits or administrative proceedings concerning a release or threatened release of hazardous substances or petroleum products involving the property. He said that the property did not discharge waste water other than sanitary waste or storm water onto the property or into a storm water system.

Mr. Grindstaff confirmed that he had not observed any evidence or indication that any hazardous substance or petroleum products unidentified waste materials, tires, automotive or industrial batteries or any other waste materials have been buried or dumped above grade on the property.

Mr. Grindstaff said that he did not know if any transformers, capacitors or hydraulic equipment were present on the property for which any records indicated the presence of PCBs.

Mr. Grindstaff said that he grew up about 2 miles from the property.

JPTD 12/06/2005

REPORT OF CONTACT

Contact Type: Telephone Interview
Record of Conversation with: James Burgess
Title: Operations Manager
Affiliation: FMRI
Contact Date: July 25, 2006
Subject: Update on Conditions at FMRI Northwest Property

Surface Drainage: A facility layout plan from the Decommissioning Plan (2003) shows a railroad embankment on the east side of the Northwest Property Area, and a culvert crossing under it from the Northwest Property to the swale north of Pond 3. I asked Mr. Burgess if that culvert is open or blocked. Mr. Burgess said the culvert is blocked on the west end with a steel plate and covered with soil, and the area was graded to drain to the north, past Pond 3. [Based on the ground contours shown in the facility layout plan, I believe there may be a low area approximately 100 to 300 feet long (N to S) where water could collect around the culvert inlet, and another low area, approximately 200 feet long (east to west) just south of the fence crossing the Northwest Property Area approximately 300 feet northwest of Pond 3.]

Power Lines: I asked what voltage the power lines carried. Mr. Burgess said there was a 128 kV line which crossed the property, and a 69 kV line which feeds the power substation between the Service Building and the Electron Beam Building.

Sewer Lines: The facility layout plan shows a sewer main following just east of the east fence of the Northwest Property Area, with connections to the Service Building and a spot approximately 120 feet north of the Service Building, but nothing to the Sintering Building or Electron Beam Building. I asked Mr. Burgess if there were sewer connections to the Sintering Building and the Electron Beam Building. He said each had sewer connections along the north side, as does the guard house.

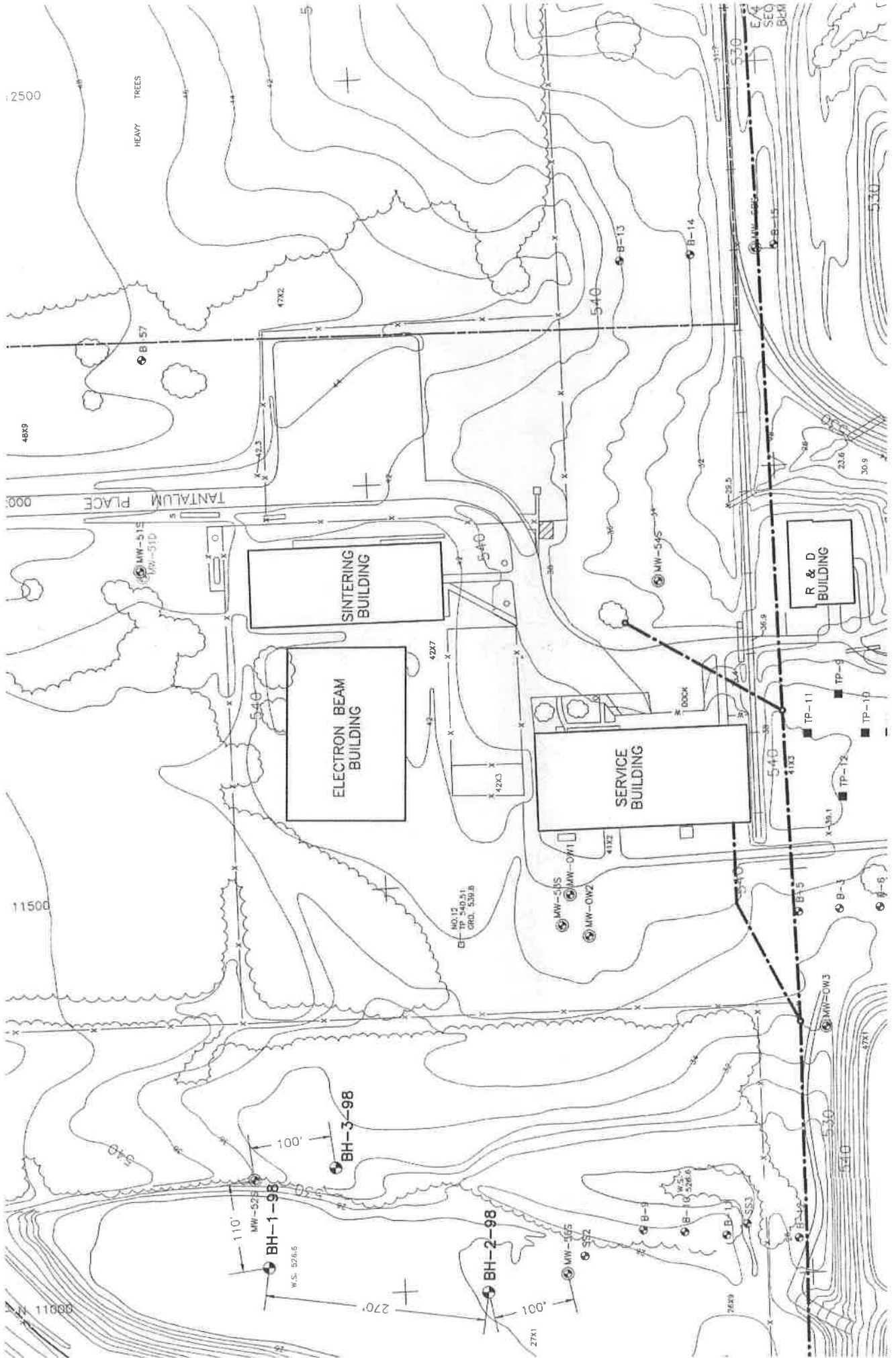
Cooling Water Reservoirs: I asked Mr. Burgess if there is a cooling water reservoir under the Sintering Building, as there is under the Electron Beam Building. He said there is. He said both had been cleaned out in 1989 and refilled with city water. He said in the late 1980s piezometers were installed to check for signs of leakage, and no sign of leakage was found. He said there were also cooling towers on the roof of the Sintering Building.

Electron Beam Building: I asked Mr. Burgess about the plastic drums we had observed in the Electron Beam Building during the September 2005 site visit. Mr. Burgess confirmed that the drums are empty.

Tenants: Mr. Burgess said that since our visit, AI International now leases the Sintering Building as well as part of the Service Building, and Global Machine Company leases the Electron Beam Building.

Appendix G

Boring Logs and Multi-Well Completion Reports



Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-52S
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist RS
 Date Started 2/10/93 Surface Elevation (ft/msl) 524.28 Checked By/Date BES 3/1/93
 Date Completed 2/10/93 Bottom of Well (ft) 18.0 Bottom of Boring (ft) 18.0 Page 1 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6" or ROD %)	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (µR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
0.0								6" I.D. Protective Steel Casing w/ Locking Cap
0.0 - 2.5	SS 1		2.0	0	450		- Med. Orange Brown, Mottled with Gray Fine-Grained Sand and Black Streaks, Rooted to 0.5', Damp - Becomes Damp to Dry at 1.5'	4" I.D. PVC Vented Slip Cap Ground Surface 2'x2' Concrete Well Pad Cement/Bentonite Grout
2.5 - 5.0	SS 2		5.0	0	500		- Becomes Very Dense at 5'	4" I.D. Sch 40 PVC Flush-Joint, Threaded, Riser Pipe Bentonite Pellets
5.0 - 7.5	NA				500			Fine Silica Sand
7.5 - 10.0	SS 3		5.0	0	450		- Becomes Med. Reddish Brown, Very Dense from 11.2' to 13'	9-7/8" Dia. Boring
10.0 - 12.5								Coarse Silica Sand
12.5 - 15.0	SS 4		5.0	0	450		- Med. Reddish Brown, Fine-Grained with Few Black Streaks, Damp to Dry, Saturated from 14.7' to 15.1',	4" I.D. Sch 40 PVC, Flush-Joint, Threaded, Mfg. Slotted (0.010") Screen
15.0 - 17.5	SS 5		1.0	0	450		- Med. Reddish Brown, Fine-Grained, Well Sorted, Saturated	

See footnotes at end of boring log.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-52S
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist RS
 Date Started 2/10/93 Surface Elevation (ft/msl) 524.28 Checked By/Date BES 3/1/93
 Date Completed 2/10/93 Bottom of Well (ft) 18.0 Bottom of Boring (ft) 18.0 Page 2 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6" or RQD (%))	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (μR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
<div style="text-align: center;">20.0</div>	SS 5	NA	1.0	0	450	Sand - Same as Above Shale - Black, Highly Weathered	<p> Coarse Silica Sand 4" I.D. Sch 40 PVC, Flush-Joint, Threaded, End Cap 4" I.D. Sch 40 PVC, Flush-Joint, Threaded, Mfg.-Slotted (0.010") Screen 9-7/8" Dia. Boring </p>

SS = Split-barrel sample.
 NA = Not applicable.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-53S
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist RS
 Date Started 2/11/93 Surface Elevation (ft/msl) 537.56 Checked By/Date BES 3/1/93
 Date Completed 2/11/93 Bottom of Well (ft) 33.5 Bottom of Boring (ft) 33.5 Page 1 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6') or RQD (%)	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (µR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
0.0								6" I.D. Protective Steel Casing w/ Locking Cap
2.5	SS 1		2.0	0	500	Silty Clay	- Med. Brown, Damp - Becomes Med, Reddish Brown, Mottled with Gray Fine-Grained Sand and Black Streaks, Damp at 1.5'	4" I.D. PVC Vented Slip Cap Ground Surface 2'x2' Concrete Well Pad
5.0	SS 2		5.0	0	500		- Becomes Very Dense from 5.5' to 7'	4" I.D. Sch 40 PVC, Flush-Joint, Threaded Riser Pipe Cement/Bentonite Grout
7.5		NA						
10.0	SS 3		5.0	0	500		- Becomes Predominantly Gray from 9.5' to 12'	9-7/8" Dia. Boring
12.5								Bentonite Pellets
15.0	SS 4		5.0	0	500		Fine Silica Sand	
17.5	SS 5		5.0	0	450		Coarse Silica Sand	

See footnotes at end of boring log.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-53S
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist RS
 Date Started 2/11/93 Surface Elevation (ft/msl) 537.56 Checked By/Date BES 3/1/93
 Date Completed 2/11/93 Bottom of Well (ft) 33.5 Bottom of Boring (ft) 33.5 Page 2 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6' or ROD (%))	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (μR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
20.0	SS 5		5.0	0	450	Silty Clay	- Same as Above	4" I.D. Sch 40 PVC, Flush-Joint, Threaded, Riser Pipe 4" I.D. Sch 40 PVC, Flush-Joint, Threaded, Mfg.-Slotted (0.010") Screen 9-7/8" Dia. Boring
22.5					500		- Becomes Gray from 21.2' to 21.5'	
25.0	SS 6		5.0	0	475	Clayey Sand	- Mod. Reddish Brown, Fine-Grained, Damp	Coarse Silica Sand
27.5		NA						
30.0	SS 7		5.0	NA	NA	Sand	- Med. Orange Brown, Med.-Grained, Well Sorted, Saturated at 30	4" I.D. Sch 40 PVC, Flush-Joint, Threaded, End Cap
32.5	SS 8		1.5	NA	NA		- Auger Refusal at 33.5'. Redrock Encountered	
35.0								

SS = Split-barrel sample.
 NA = Not applicable.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-54S
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist ASH
 Date Started 2/11/93 Surface Elevation (ft/msl) 531.73 Checked By/Date BES 3/1/93
 Date Completed 2/11/93 Bottom of Well (ft) 30.0 Bottom of Boring (ft) 31.0 Page 1 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6" or ROD (%))	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (μ R/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
0.0								6" I.D. Protective Steel Casing w/ Locking Cap
2.5	SS 1		2.0	0	450	Sandy Clay	- Dk. Brown, Sand is Med.- to Fine-Grained, Trace Well-Rounded Gravel ($\leq 1/2"$ in Dia.), Rooted to 2.0'; Damp	4" I.D. PVC Vented Slip Cap Ground Surface 2'x2' Concrete Well Pad
5.0	SS 2		5.0	0	500	Silty Clay	- Mod. Orange Brown with Med. Gray to Lt. Gray Mottles; Very Stiff, Dry to Damp	Cement/Bentonite Grout
7.5		NA					- Becomes Med. Gray to Lt. Gray at 8.0'	4" I.D. Sch 40 PVC, Flush-Joint, Threaded, Riser Pipe
10.0	SS 3		5.0	0	500			Bentonite Pellets
12.5								9-7/8" Dia. Boring
15.0	SS 4		5.0	0	475	Clayey Sand	- Med. Reddish Brown, Mod. Stiff, Sand is Med.- to Fine-Grained, Moist	Fine Silica Sand
17.5	SS 5		5.0	0	450		- Becomes Med. Gray to Lt. Gray at 16.5'	Coarse Silica Sand
								4" I.D. Sch 40 PVC, Flush-Joint, Threaded, Mfg.-Slotted (0.010") Screen

See footnotes at end of boring log.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-54S
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist ASH
 Date Started 2/11/93 Surface Elevation (ft/msl) 531.73 Checked By/Date BES 3/1/93
 Date Completed 2/11/93 Bottom of Well (ft) 30.0
 Bottom of Boring (ft) 31.0 Page 2 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6" or ROD (%))	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (µR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
20.0	SS 5		5.0	0	450		Clayey Sand - Same as Above	<p>4" I.D. Sch 40 PVC, Flush-Joint, Threaded Mfg.-Slotted (0.010") Screen</p> <p>9-7/8" Dia. Boring</p> <p>Coarse Silica Sand</p> <p>Bentonite Pellets</p> <p>4" I.D. Sch 40 PVC, Flush-Joint, Threaded, End Cap</p>
22.5					475		Sand - Mod. Reddish Brown, Med.- to Fine-Grained, Damp	
25.0	SS 6	NA	5.0	0	500		- Becomes Wet at 26.2' Silt - Med. Brown to Lt. Reddish Brown, Stiff, Wet	
27.5							Sand - Med. Brown, Med.- to Fine-Grained, Wet	
30.0	SS 7		4.0	0	0		Shale - Grayish Black, Soft, Dry	
32.5								

SS = Split-barrel sample.
 NA = Not applicable.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-55S
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist ASH
 Date Started 2/10/93 Surface Elevation (ft/msl) 524.60 Checked By/Date BES 3/1/93
 Date Completed 2/10/93 Bottom of Well (ft) 22.5
 Bottom of Boring (ft) 23.0 Page 1 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6" or RQD (%)	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (μR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
0.0								6" I.D. Protective Steel Casing w/ Locking Cap
0.0 - 2.5	SS 1		2.0	0	430 470	Clayey Sand	- Med. Brown to Dk. Brown, Sand is Med.- to Fine-Grained	4" I.D. PVC Vented Slip Cap Ground Surface 2'x2' Concrete Well Pad
2.5 - 5.0	SS 2		5.0	0	430 470	Silty Clay	- Med. Brown, Few Lt. Gray Mottles, Mod. Cohesive, Trace Sand, Damp	Cement/Bentonite Grout 4" I.D. Sch 40 PVC, Flush-Joint, Threaded, Riser Pipe
5.0 - 7.5	NA							Bentonite Pellets
7.5 - 10.0	SS 3		5.0	0	500	Clayey Sand	- Med. Brown, Sand is Fine- to Med.-Grained, Damp	Fine Silica Sand
10.0 - 12.5								9-7/8" Dia. Boring
12.5 - 15.0	SS 4		5.0	0	500	Sand	- Med. Brown, Fine- to Med.-Grained, Damp	Coarse Silica Sand
15.0 - 17.5	SS 5		5.0	0	0	Silt	- Med. Reddish Brown, Moist to Damp - Becomes Saturated at 16.5'	4" I.D. Sch 40 PVC, Flush-Joint, Threaded, Mfg.-Slotted (0.010") Screen
17.5 - 22.5						Sand	- Med. Brown, Med.- to Coarse-Grained, Wet	

See footnotes at end of boring log.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-55S
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist ASH
 Date Started 2/10/93 Surface Elevation (ft/msl) 524.60 Checked By/Date BES 3/1/93
 Date Completed 2/10/93 Bottom of Well (ft) 22.5
 Bottom of Boring (ft) 23.0 Page 2 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6" or ROD (%))	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (µR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
20.0	SS 5	NA	5.0	0	0		Sand - Same as Above - Becomes Coarse- to Very Coarse-Grained at 18.5'	<p>4" I.D. Sch 40 PVC, Flush-Joint, Threaded, Mfg.-Slotted (0.010") Screen</p> <p>Coarse Silica Sand</p> <p>9-7/8" Dia. Boring</p> <p>Bentonite Pellets</p> <p>4" I.D. Sch 40 PVC, Flush-Joint, Threaded, End Cap</p>
22.5	SS 6		1.0	0	0		Shale - Med. Bluish Gray, Dry	
25.0								

SS = Split-barrel sample.
 NA = Not applicable.

Boring Log


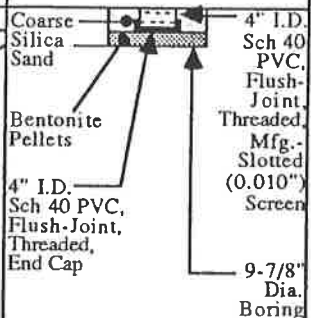
Client Fansteel, Inc. Project No. 111 Boring No. MW-56S
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist RS
 Date Started 2/9/93 Surface Elevation (ft/msl) 521.89 Checked By/Date BES 3/1/93
 Date Completed 2/9/93 Bottom of Well (ft) 18.0
 Bottom of Boring (ft) 18.3 Page 1 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6" or ROD (%))	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (µR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
0.0								6" I.D. Protective Steel Casing w/ Locking Cap
2.5	SS 1		2.5	0	500		- Med. Brown, Rooted, Damp - Becomes Med. Orange Brown, Mottled with Gray Fine-Grained Sand and Black Streaks, Very Dense at 0.8'	4" I.D. PVC Vented Slip Cap
5.0	SS 2		5.0	0	500			Ground Surface
7.5	NA				425			2'x2' Concrete Well Pad
10.0	SS 3		5.0	0	450		- Becomes Predominantly Lt. Grayish Brown at 7.5'	4" I.D. Sch 40 PVC Flush-Joint Threaded Riser Pipe
12.5					425		- Becomes Very Dense at 10'	9-7/8" Dia. Boring
15.0	SS 4		5.0	0	500			4" I.D. Sch 40 PVC Flush-Joint Threaded Mfg.-Slotted (0.010") Screen
17.5							Sand - Lt. Grayish Brown, Med.-Grained, Well Sorted, Saturated	

See footnotes at end of boring log.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-56S
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist RS
 Date Started 2/9/93 Surface Elevation (ft/msl) 521.89 Checked By/Date BES 3/1/93
 Date Completed 2/9/93 Bottom of Well (ft) 18.0 Bottom of Boring (ft) 18.3 Page 2 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6") or RQD (%)	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (μ R/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
<div style="text-align: center;">20.0</div>	SS 5	NA	0.8	0	500		Sand - Same as Above Shale - Black, Very Weathered with Limonite Staining	

SS = Split-barrel sample.
 NA = Not applicable.

Boring Log


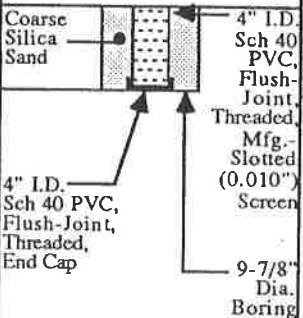
Client Fansteel, Inc. Project No. 111 Boring No. MW-57S
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist RS
 Date Started 2/8/93 Surface Elevation (ft/msl) 522.42 Checked By/Date BES 3/1/93
 Date Completed 2/8/93 Bottom of Well (ft) 19.0 Bottom of Boring (ft) 19.0 Page 1 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6") or FOD (%)	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (µR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
0.0								6" I.D. Protective Steel Casing w/ Locking Cap 4" I.D. PVC Vented Slip Cap Ground Surface 2'x2' Concrete Well Pad
2.5	SS 1		2.5	0	500		Silty Clay - Med. Brown, Rooted to 0.8', Damp - Becomes Med. Reddish Brown at 1.5' - Becomes Mottled with Gray Fine-Grained Sand and Black Streaks at 2.5'	Cement/Bentonite Grout Bentonite Pellets Fine Silica Sand 4" I.D. Sch 40 PVC, Flush-Joint, Threaded, Riser Pipe
5.0	SS 2		5.0	0	500			
7.5		NA			500			
10.0	SS 3		5.0	0	450			9-7/8" Dia. Boring Coarse Silica Sand
12.5					500			
15.0	SS 4		5.0	0			- Becomes Lt. Reddish Brown at 14' - Lt. Reddish Brown, Med.-Grained, Well Sorted, Saturated - Becomes Silty Clay, Lt. Reddish Brown, Mottled, Saturated at 16.8' - Becomes Lt. Reddish Brown, Med.-Grained, Saturated at 17.0'	4" I.D. Sch 40 PVC, Flush-Joint, Threaded, Mfg.-Slotted (0.010") Screen
17.5					450		Sand	

See footnotes at end of boring log.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-57S
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist RS
 Date Started 2/8/93 Surface Elevation (ft/msl) 522.42 Checked By/Date BES 3/1/93
 Date Completed 2/8/93 Bottom of Well (ft) 19.0 Bottom of Boring (ft) 19.0 Page 2 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6" or RQD (%))	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (μR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
<div style="text-align: center;">20.0</div>	SS 5	NA	1.5	NA	NA		Sand - Same as Above - Auger Refusal at 19.0'. Bedrock Encountered	

SS = Split-barrel sample.
 NA = Not applicable.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-151D
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist BES
 Date Started 2/15/93 Surface Elevation (ft/msl) 540.55 Checked By/Date RCH - 5/7/93
 Date Completed 2/22/93 Bottom of Well (ft) 70.0 Bottom of Boring (ft) 85.0 Page 1 of 5

Depth (Feet)	Sample No. and Type	SPT Blows (6') or ROD (%)	Sample Recovery (ft)	H-Nu Reading (ppm)	Beta/Gamma Reading (cpm)	Profile	Profile Description	Well/Piezometer Construction Detail
0.0								
2.5	SS 1		2.5	<1	ND	Silty Clay Loam - Dusky Brown, Med. Stiff to Stiff, Rooted, Damp to Wet Silty Clay - Grayish Brown, Med. Stiff, Rooted, Damp - Becomes Moist from 1.2' to 1.5' - Med. Red Clay Layers from 1.8' to 2.4'		
5.0	SS 2		5.0	<1	ND	Clay - Med. Brown to Lt. Brown, Very Stiff to Hard, Trace Silt, Rooted to 6.5', Dry - Few Dk. Yellowish-Orange Mottles from 4.2' - Few Dk. Gray, Med. - to Coarse-Grained Sandstone Fragments ($\leq 1/8"$ in Dia.) from 5.4' to 8.2'		
10.0	SS 3	NA	5.0	<1	ND	Sandy Clay - Dk. Yellowish Orange with Pale Yellowish-Brown Mottling, Very Hard, Sand is Fine-Grained, Dk. Reddish-Brown, Well-Rounded Limonite or Iron Concretions ($< 1/8"$ in Dia.) Throughout - Few Grayish-Black (N-2) Mottles from 10'		
12.5								
15.0	SS 4		5.0	<1	ND			
17.5								

See footnotes at end of boring log.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-151D
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist BES
 Date Started 2/15/93 Surface Elevation (ft/msl) 540.55 Checked By/Date RCH - 5/7/93
 Date Completed 2/22/93 Bottom of Well (ft) 70.0
 Bottom of Boring (ft) 85.0 Page 2 of 5

Depth (Feet)	Sample No. and Type	SPT Blows (6") or RQD (%)	Sample Recovery (ft)	H-Nu Reading (ppm)	Beta/Gamma Reading (cpm)	Profile	Profile Description	Well/Piezometer Construction Detail
20.0	SS 5		5.0	<1	ND	Sandy Clay	- Same as Above - Becomes Dusky Red to Dk. Reddish Brown at 20.3' - Becomes Damp at 20.5'	<p>12-1/4" Dia. Boring</p> <p>8" I.D. Steel Casing</p> <p>Cement/Bentonite Grout</p> <p>4" I.D. Sch 40 PVC Flush-Joint Threaded Riser Pipe</p>
22.5								
25.0	SS 6		5.0	<1	ND	Clayey Sand	- Dusky Red to Med. Red, Sand is Fine- to Med.- Grained, Moist	
27.5		NA				Sand	- Grayish Orange, Med.- to Coarse-Grained, Moist	
30.0	SS 7		5.0	<1	ND	Silty Clay	- Dusky Red with Few Grayish-Black Mottles, Very Stiff, Coarse-Grained Wet Sand Lenses Throughout, Damp - Becomes Wet at 27.7'	
32.5						Sand	- Lt. Gray to Lt. Brown, Med.- to Coarse-Grained, Wet - Becomes Very Coarse-Grained with Trace Gravel (≤1/8" in Dia.) and Dk. Gray Subrounded Shale Fragments at 31.5'	
35.0	SS 8		2.5	<1	ND			
37.5	WR		NA	NA	NA	Shale	- Med. Bluish Gray to Med. Gray, Highly Weathered, Soft to 35' - Auger Refusal at 35.0'	

See footnotes at end of boring log.

Boring Log

Client <u>Fansteel, Inc.</u>	Project No. <u>111</u>	Boring No. <u>MW-151D</u>
Location <u>Muskogee, Oklahoma</u>	Driller <u>A. W. Pool Drilling</u>	Field Scientist <u>BES</u>
Date Started <u>2/15/93</u>	Surface Elevation (ft/msl) <u>540.55</u>	Checked By/Date <u>RCH - 5/7/93</u>
Date Completed <u>2/22/93</u>	Bottom of Well (ft) <u>70.0</u>	
	Bottom of Boring (ft) <u>85.0</u>	Page <u>3</u> of <u>5</u>

Depth (Feet)	Sample No. and Type	SPT Blows (5' or RQD (%))	Sample Recovery (ft)	H-Nu Reading (ppm)	Beta/Gamma Reading (cpm)	Profile	Profile Description	Well/Piezometer Construction Detail
40.0	Core 1	19%	43	<1	Range 40-80		Shale - Med. Dk. Gray (N-4), Siliceous, Laminations Angled Slightly (~5°), Horizontal Fractures and Some 45° Fractures, No Staining Evident, Some Spalling of Core Fragments	<p style="font-size: small;"> 8" I.D. Steel Casing 12-1/4" Dia. Boring 7-7/8" Dia. Boring Cement/Bentonite Grout 4" I.D. Sch 40 PVC, Flush-Joint, Threaded, Riser Pipe Bentonite Pellets </p>
42.5					Range 40-95		- Becomes More Competent at 45.54' - No Return from 46.0' to 49.75'	
45.0	Core 2	90%	62	<1	Range 40-95		- Regain Return and Grayish Black Clay, Soft at 49.75'	
47.5					Range 40-80		Sandy Shale - Lt. Gray (N-7), Thin Laminations, Fractured Along Bedding Planes, Some Shale Partings and Pressure-Solution Features Similar to Stylolites, Interlaminated with Dk. Gray (N-4) Shale, Lt. Gray Laminations are Calcareous, Dk. Gray are Siliceous and Hard	
50.0					Range 40-80		Shale - Med. Dk. Gray (N-4), Soft, Fissile, Clay Rich, Few Fractures, Sharp Contact with Overlying Sandy Shale - Fractured from 52.3' to 52.5' and 53.55' to 56.0', No Staining Evident - Becomes Grayish Black (N-2) at 53.05' - Core Dry when Broken	
52.5	Core 3	85%	62	<1	Range 40-80			
55.0					Range 40-80			
57.5	Core 4	18%	57	<1	Range 40-80			

See footnotes at end of boring log.

Boring Log


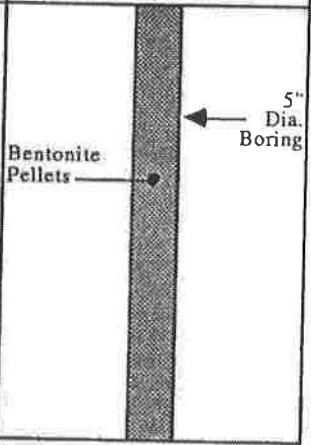
Client Fansteel, Inc. Project No. 111 Boring No. MW-151D
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist BES
 Date Started 2/15/93 Surface Elevation (ft/msl) 540.55 Checked By/Date RCH - 5/7/93
 Date Completed 2/22/93 Bottom of Well (ft) 70.0 Bottom of Boring (ft) 85.0 Page 4 of 5

Depth (Feet)	Sample No. and Type	SPT Blows (6") or RQD (%)	Sample Recovery (ft)	H-Nu Reading (ppm)	Beta/Gamma Reading (cpm)	Profile	Profile Description	Well/Piezometer Construction Detail
60.0	Core 4	18%	57	<1	Range 40-80	Shale	- Same as Above	
62.5							- Becomes Med. Lt. Gray (N-7), Slightly Harder from 59.1' to 59.35'	
65.0							- Becomes Med. Hard, Slightly Fissile, Siliceous with Some Clay-Filled Horizontal Fractures at 62.7', 63.4', 64.2', and 64.65'	
67.5	Core 5	68%	94	<1	Range 40-100	Shale	- Fractured at 30° Angle from 64.4' to 64.5', Shale Grades to Dk Gray (N-3)	
70.0							- Highly Fractured from 65.0' to 68.3', Horizontal Fractures with No Staining, Very Fissile, Shale Partings Evident Along Fracture Surfaces	
72.5							- Bedding Plane Fractures (~10° Angle) from 66.73' to 67.13'	
75.0	Core 6	95%	99	<1	Range 40-90	Shale	- Some Clay Filling at 67.8' and 68.2'	
77.5								

See footnotes at end of boring log.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-151D
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist BES
 Date Started 2/15/93 Surface Elevation (ft/msl) 540.55 Checked By/Date RCH - 5/7/93
 Date Completed 2/22/93 Bottom of Well (ft) 70.0 Bottom of Boring (ft) 85.0 Page 5 of 5

Depth (Feet)	Sample No. and Type	SPT Blows (6" or RQD (%)	Sample Recovery (ft)	H-Nu Reading (ppm)	Beta/Gamma Reading (cpm)	Profile	Profile Description	Well/Piezometer Construction Detail
80.0	Core 6	95%	99	<1	Range 40-90		Shale - Same as Above	 <p>5" Dia. Boring Bentonite Pellets</p>
82.5							- Zone of Thin Horizontal Fractures from 79.90' to 80.35', Very Soft	
85.0							- Horizontal Fractures with Clay Filling at 80.85', 81.45', and 82.93'	
87.5								

SS = Split-barrel sample.
 ND = Not detected.
 NA = Not applicable.
 WR = Water rotary.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-68S
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist ASH
 Date Started 2/10/93 Surface Elevation (ft/mssl) 527.78 Checked By/Date BES 3/1/93
 Date Completed 2/10/93 Bottom of Well (ft) 26.8 Bottom of Boring (ft) 27.0 Page 1 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6") or ROD (%)	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (µR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
0.0								6" I.D. Protective Steel Casing w/ Locking Cap
2.5	SS 1		2.0	0	450		Silty Clay - Lt. Brown to Med. Orange Brown, Few Med. Gray to Lt. Gray Mottles, Abundant Black Organic Remnants, Dry to Damp	PVC Vented Slip Cap Ground Surface 2'x2' Concrete Well Pad
5.0	SS 2		5.0	0	450		- Becomes Med. Reddish Brown at 5.2'	4" I.D. Sch 40 PVC, Flush-Joint, Threaded, Riser Pipe Cement/Bentonite Grout
7.5		NA					Clayey Sand - Mod. Reddish Brown with Some Med. Brown to Lt. Brown Mottles, Sand is Med.- to Fine-Grained, Damp	Bentonite Pellets
10.0	SS 3		5.0	0	450			Fine Silica Sand 9-7/8" Dia. Boring
12.5					400			
15.0	SS 4		5.0	0			- Becomes Med. Grayish Brown at 15.8'	4" I.D. Sch 40 PVC, Flush-Joint, Threaded, Mfg.-Slotted (0.010") Screen Coarse Silica Sand
17.5	SS 5		5.0	0	400		Silty Clay - Med. Gray to Lt. Gray, Damp to Moist	

See footnotes at end of boring log.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. MW-68S
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist ASH
 Date Started 2/10/93 Surface Elevation (ft/msl) 527.78 Checked By/Date BES 3/1/93
 Date Completed 2/10/93 Bottom of Well (ft) 26.8 Bottom of Boring (ft) 27.0 Page 2 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6") or RQD (%)	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (μR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
20.0	SS 5		5.0	0	400		Silty Clay - Same as Above	<p>4" I.D. Sch 40 PVC, Flush-Joint, Threaded Mfg.-Slotted (0.010") Screen</p> <p>9-7/8" Dia. Boring</p> <p>Coarse Silica Sand</p> <p>Bentonite Pellets</p> <p>4" I.D. Sch 40 PVC, Flush-Joint, Threaded, End Cap</p>
22.5	NA				450	Sand - Med. Brown, Med.- to Fine-Grained, Wet Clay - Med. Brown, Stiff, Moist		
25.0	SS 6		5.0	0	0	Sand - Med. Brown, Med.- to Fine-Grained, Wet - Becomes Coarse- to Very Coarse-Grained at 22.5'		
27.5						Shale - Med. Bluish Gray, Mod. Fissile, Moist		

SS = Split-barrel sample.
 NA = Not applicable.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. B-13
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist RS
 Date Started 2/2/93 Surface Elevation (ft/msl) 536.2 Checked By/Date ASH - 3/9/93
 Date Completed 2/2/93 Bottom of Well (ft) NA Bottom of Boring (ft) 27.5 Page 1 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6") or RQD (%)	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (μ R/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
0.0								
2.5	SS 1		2.5	0	400	Silty Clay	- Med. Orange Brown, Mottled with Gray Fine-Grained Sand, Very Dense, Damp	Cement/Bentonite Grout
5.0	SS 2		5.0	0	450		- Predominantly Gray and Dry from 5.4' to 7.2'	
7.5		NA			500		- Black Streaks encountered from 8.5'	
10.0	SS 3		5.0	0	500			
12.5								
15.0	SS 4		5.0	0	400		- Becomes Predominantly Med. Orange Brown at 15.8'	
17.5							- Few Black Shale Fragments at 17.0'	

Ground Surface

Cement/Bentonite Grout

9-7/8" Dia. Boring

See footnotes at end of boring log.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. B-13
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist RS
 Date Started 2/2/93 Surface Elevation (ft/msl) 536.2 Checked By/Date ASH - 3/9/93
 Date Completed 2/2/93 Bottom of Well (ft) NA Bottom of Boring (ft) 27.5 Page 2 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6" or ROD (%))	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (µR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
20.0	SS 5		5.0	0	450		Silty Clay - Same as Above - Becomes Moist at 18.5'	Cement/Bentonite Grout 9-7/8" Dia. Boring
22.5		NA		500				
25.0	SS 6		5.0	0	400			
27.5						Sand - Med. Orange Brown, Very Fine-Grained, Well Sorted, Saturated - Saturated from 26.5'		
30.0								

SS = Split-barrel sample.

NA = Not applicable.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. B-14
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist RS
 Date Started 2/2/93 Surface Elevation (ft/msl) 533.7 Checked By/Date ASH - 3/9/93
 Date Completed 2/2/93 Bottom of Well (ft) NA Bottom of Boring (ft) 27.5 Page 1 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6" or RQD (%)	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (μR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
0.0								Ground Surface
2.5	SS 1		2.5	0	500	Silty Clay	<ul style="list-style-type: none"> - Med. Brown, Rooted to 0.5', Damp - Becomes Med. Orange Brown and Mottled with Gray Sand and Black Streaks at 0.5' - Becomes Very Dense at 1' - Becomes Predominantly Med. Gray, Mottled at 2' 	
5.0	SS 2		5.0	0	500		<ul style="list-style-type: none"> - Dry from 4.0' to 5.5' - Becomes Damp to Dry at 5.5' 	
7.5		NA					<ul style="list-style-type: none"> - Becomes Damp at 7.5' 	
10.0	SS 3		5.0	0	500		<ul style="list-style-type: none"> - Becomes Dense at 12.5' 	
15.0	SS 4		5.0	0	500			
17.5								

See footnotes at end of boring log.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. B-14
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist RS
 Date Started 2/2/93 Surface Elevation (ft/msl) 533.7 Checked By/Date ASH - 3/9/93
 Date Completed 2/2/93 Bottom of Well (ft) NA Bottom of Boring (ft) 27.5 Page 2 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6") or RQD (%)	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (μ R/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
20.0	SS 5		5.0	0	400		Silty Clay - Same as Above - Becomes Malleable at 18.5'	Cement/Bentonite Grout 9-7/8" Dia. Boring
22.5		NA		500	- Becomes Predominantly Med. Gray at 22.5'			
25.0	SS 6		5.0	0	500		- Becomes Moist at 26.8'	
27.5							- Becomes Saturated at 27.5'	
30.0								

SS = Split-barrel sample.

NA = Not applicable.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. B-57
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist ASH
 Date Started 2/5/93 Surface Elevation (ft/msl) 546.0 Checked By/Date BES - 3/5/93
 Date Completed 2/5/93 Bottom of Well (ft) NA Bottom of Boring (ft) 32.0 Page 1 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6" or RQD (%)	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (µR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
0.0								Ground Surface
1.0	SS 1		1.0	0	500		Silty Clay - Dk. Brown, Loose, Trace Fine-Grained Sand, Rooted to 1.8', Wet	<p style="text-align: center;">Cement/ Bentonite Grout</p> <p style="text-align: center;">9-7/8" Dia. Boring</p>
2.5					500	Sandy Clay - Med. Gray with Some Dk. Reddish Brown Mottles, Hard, Sand is Fine- to Med.-Grained, Dry		
5.0	SS 2		5.0	0	475	- Mottles Become Med. Orange Brown at 4.6'		
7.5		NA				- Abundant Black Organic Inclusions from 7.0' to 7.5'		
10.0	SS 3		5.0	0	500	- Becomes Predominantly Orange Brown with Few Lt. Gray to Med. Gray Mottles at 9.5'		
12.5					450	Silty Clay - Lt. Gray to Med. Gray, Very Hard, Few Med. Orange-Brown Mottles, Trace Orange-Brown Nodules, Dry to Damp		
15.0	SS 4		5.0	0	500			
17.5	SS 5		5.0	0	500		- Becomes Med. Orange Brown, Damp to Moist at 17.0'	

See footnotes at end of boring log.

Boring Log

Client Fansteel, Inc. Project No. 111 Boring No. B-57
 Location Muskogee, Oklahoma Driller A. W. Pool Drilling Field Scientist ASH
 Date Started 2/5/93 Surface Elevation (ft/msl) 546.0 Checked By/Date BES - 3/5/93
 Date Completed 2/5/93 Bottom of Well (ft) NA Bottom of Boring (ft) 32.0 Page 2 of 2

Depth (Feet)	Sample No. and Type	SPT Blows (6" or RQD (%))	Sample Recovery (ft)	H-Nu Reading (ppm)	Radiation (μR/hr)	Profile	Profile Description	Well/Piezometer Construction Detail
20.0	SS 5		5.0	0	500		Silty Clay - Same as Above	
22.5								
25.0	SS 6	NA	5.0	0	500		Clayey Silt - Lt. Reddish Brown, Moist	
27.5								
30.0	SS 7		5.0	0	500		Sand - Med. Brown, Fine-Grained, Well Sorted, Moist - Becomes Med.-Grained, Wet at 30.0'	
32.5								

SS = Split-barrel sample.
 NA = Not applicable.

DRILLING/SAMPLING ACTIVITY RECORD				PROJECT CODE 233/151/199	SAMPLING PERSONNEL Amy Brittain, Jon Reid, Hal Cantwell	Date 9/6/2006
SITE Muskogee City-County Port Authority				SAMPLING STATION GW-01	COORDINATES 35.77827, -95.30611	SHEET NO. 1
DRILLING METHOD/EQUIPMENT Hollow Steam Auger				HOLE SIZE 2 inch well	DRILLING CONTRACTOR/DRILLER'S NAME Mohawk Drilling/Ryan Thompson	
CHRONOLOGICAL RECORD						
TIME		ACTIVITY				
10:34		start drilling				
11:40		stop drilling				
GROUND EL.				T/CASING EL.		DEPTH H2O
						TIME/DATE
				GRROUTING (Mix Design, Method) Temporary well - Sand pack from 30'-23', bentonite chips from 23'-21'		DECONTAMINATION (Method) Alconox with high pressure spray

BORING LOG

DEPTH BELOW SURFACE	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION / CLASSIFICATION	% CORE RECOV.	SAMPLE LOG	TIME OF SAMPLE RECOVERY	FIELD VAPOR TEST READINGS	WELL CONSTRUCTION
0'		SM CL	0'-0.7' dusky red (3/3 10R) fine grained sandy soil 0.7'-4' yellowish red (4/6 5YR) well sorted sandy clay	100 80				
1'								
2'							1.6	
3'								
4'			4'-5' no recovery				12	
5'		CH	5'-7.3' strong brown (5/6 7.5 YR) fat clay with some medium grained sand	46				
6'							0.9	
7'			7.3'-10' no recovery					
8'								
9'								
10'		CH SP	10'-15' yellowish red (4/6 5YR) 1 cm thin layers of fat clay and medium to coarse grained sand, damp	100			0.5	
11'								
12'							0.1	
13'								
14'								
15'		CH SP	15'-18.4' same as above	68				
16'							0	
17'								
18'			18.4'-20' no recovery					
19'							0.3	
20'		SC	20'-22' yellowish red (5/6 5YR) fine to medium grained clayey sand	100				



SIGNATURE OF SAMPLE TEAM LEADER

FIGURE NO.

DRILLING/SAMPLING ACTIVITY RECORD	PROJECT CODE	SAMPLING PERSONNEL		Date
	233/151/199	Amy Brittain, Jon Reid, Hal Cantwell		9/6/2006
SITE	Muskogee City-County Port Authority	SAMPLING STATION	COORDINATES	SHEET NO.
		GW-01		2

BORING LOG

DEPTH BELOW SURFACE	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION / CLASSIFICATION	% CORE RECOV.	SAMPLE LOG	TIME OF SAMPLE RECOVERY	FIELD VAPOR TEST READINGS	WELL CONSTRUCTION
21'								
22'		SP	22'-22.4' yellowish red (5/8 5YR) medium to course sand 22.4'-25' no recovery	13	SS-01	11:30	0	
23'								
24'								
25'		SP	25'-27' yellowish red (4/6 5YR) medium to course grained sand, very wet	100				
26'								
27'		SP	27'-27.5' gray (5/1 2.5Y) very course sand 27.5-30' no recovery	16				
28'								
29'								
30'			well screened from 25'-30'					
31'								
32'								
33'								
34'								
35'								
36'								
37'								
38'								
39'								
40'								
41'								
42'								
43'								
44'								
45'								
46'								
47'								
48'								
49'								
50'								



SIGNATURE OF SAMPLE TEAM LEADER

FIGURE NO.

Blank area for signature and figure number.

DRILLING/SAMPLING ACTIVITY RECORD

PROJECT CODE		SAMPLING PERSONNEL		Date
233/151/199		Amy Brittain, Jon Reid, Hal Cantwell		9/6/2006
SAMPLING STATION			COORDINATES	SHEET NO.
GW-02			35.77589, -95.30620	1
SITE		Muskogee City-County Port Authority		
DRILLING METHOD/EQUIPMENT		2 inch well		
Hollow Steam Auger		Mohawk Drilling/Ryan Thompson		
CHRONOLOGICAL RECORD				
TIME	ACTIVITY			
13:15	start drilling			
14:35	stop drilling			
SKETCH (LOCATION, ORIENTATION, FACILITIES, OTHER NOTES)				
GROUND EL.			T/CASING EL.	DEPTH H2O
				TIME/DATE
			Temporary well - Sand pack from 35'-23', bentonite chips from 23'-21'	
			Alconox with high pressure spray	

BORING LOG

DEPTH BELOW SURFACE	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION / CLASSIFICATION	% CORE RECOV.	SAMPLE LOG	TIME OF SAMPLE RECOVERY	FIELD VAPOR TEST READINGS	WELL CONSTRUCTION
0'		SP	0'-0.7' dark reddish brown (3/3 5YR) fine-medium grained sandy soil	88				
1'		CL	0.7'-4.4' brown (5/3 7.5YR) sandy clay				0.5	
2'								
3'								
4'			4.4'-5' no recovery					
5'		CL	5'-10' brown (5/3 7.5YR) sandy clay w/ some black material	100				
6'								
7'							1.1	
8'								
9'								
10'		CL	10'-15' light brown (6/3 7.5YR) sandy clay	66				
11'							4.3	
12'								
13'			13.3'-15' no recovery					
14'								
15'		CH	15'- 21' light brown (6/3 7.5YR) sandy fat clay	42				
16'							7.3	
17'			17.1'-20' no recovery					
18'								
19'								
20'		CH	20'-21' light brown (6/3 7.5YR) sandy fat clay	28			11.5	



SIGNATURE OF SAMPLE TEAM LEADER	FIGURE NO.

DRILLING/SAMPLING ACTIVITY RECORD

PROJECT CODE	SAMPLING PERSONNEL	Date
233/151/199	Amy Brittain, Jon Reid, Hal Cantwell	9/6/2006

SITE	Muskogee City-County Port Authority	SAMPLING STATION	COORDINATES	SHEET NO.
		GW-02	35.77589, -95.30620	2

BORING LOG

DEPTH BELOW SURFACE	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION / CLASSIFICATION	% CORE RECOV.	SAMPLE LOG	TIME OF SAMPLE RECOVERY	FIELD VAPOR TEST READINGS	WELL CONSTRUCTION
21'		CH	21'-21.4' brown (4/4 7.5YR) fat clay					
22'			21.4'-25' no recovery					
23'								
24'								
25'		CH	25'-28.8' strong brown (4/6 7.5YR) fat clay with some medium to course grained sand	76				
26'								
27'					SS-11	2:38	24.4	
28'			28.8'-30' no recovery					
29'								
30'		SP	30'-31.6' light brown (6/4 7.5YR) medium to course grained sand, wet	32	SS-02	2:45		
31'								
32'								
33'								
34'								
35'			Total depth of well 35' Black shale found in shoe of last auger					
36'								
37'								
38'								
39'								
40'								
41'								
42'								
43'								
44'								
45'								
46'								
47'								
48'								
49'								
50'								



SIGNATURE OF SAMPLE TEAM LEADER

FIGURE NO.

DRILLING/SAMPLING ACTIVITY RECORD		PROJECT CODE	SAMPLING PERSONNEL		Date	
		233/151/199	Amy Brittain, Jon Reid, Hal Cantwell		9/6/2006	
SITE Muskogee City-County Port Authority		SAMPLING STATION		COORDINATES	SHEET NO.	
		GW-03		35.77578, -95.30821	1	
DRILLING METHOD/EQUIPMENT		HOLE SIZE	DRILLING CONTRACTOR/DRILLER'S NAME			
Hollow Steam Auger		2 inch well	Mohawk Drilling/Ryan Thompson			
CHRONOLOGICAL RECORD						
TIME		ACTIVITY				
16:14		start drilling				
17:40		stop drilling				
SKETCH (LOCATION, ORIENTATION, FACILITIES, OTHER NOTES)						
GROUND EL.				T/CASING EL.	DEPTH H2O	TIME/DATE
Temporary well - Sand pack from 37.5'-25.5', bentonite chips from 25.5'-23.5'				DECONTAMINATION (Method)		
				Alconox with high pressure spray		

BORING LOG

DEPTH BELOW SURFACE	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION / CLASSIFICATION	% CORE RECOV.	SAMPLE LOG	TIME OF SAMPLE RECOVERY	FIELD VAPOR TEST READINGS	WELL CONSTRUCTION
0'		ML	0'-2' brown (5/3 7.5YR) fine silty soil	78				
1'								
2'		CL	2'-3.8' dark brown (3/2 7.5YR) sandy lean clay				0	
3'			3.8'-5' no recovery					
4'								
5'		CL	5'-10' strong brown (5/6 7.5YR) lean clay with fine grained sand w. some black material	100				
6'								
7'							0	
8'								
9'								
10'		CH	10'-13.4' brown (5/4 7.5YR) fat clay with fine grained sand	68				
11'							0	
12'								
13'			13.4'-15' no recovery					
14'								
15'		CH	15'-17.9' brown (5/3 7.5YR) fat clay with fine grained sand	58				
16'							0	
17'			17.9'-20' no recovery					
18'								
19'								
20'		CH	20'-24.3' brown (5/3 7.5YR) fat clay with fine grained sand	88				



SIGNATURE OF SAMPLE TEAM LEADER

FIGURE NO.

**DRILLING/SAMPLING
ACTIVITY RECORD**

PROJECT CODE
233/151/199

SAMPLING PERSONNEL
Amy Brittain, Jon Reid, Hal Cantwell

Date
9/6/2006

SITE Muskogee City-County Port
Authority

SAMPLING STATION
GW-03

COORDINATES
35.77578, -95.30821

SHEET NO.
2

BORING LOG

DEPTH BELOW SURFACE	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION / CLASSIFICATION	% CORE RECOV.	SAMPLE LOG	TIME OF SAMPLE RECOVERY	FIELD VAPOR TEST READINGS	WELL CONSTRUCTION
21'								
22'							0	
23'								
24'								
25'		CH	25'-25.5' brown (5/3 7.5YR) fat clay with fine grained sand	100				
26'		CH	25.5'-30' yellowish red (4/6 5YR) fat clay with 1 cm sand lenses					
27'								
28'							0	
29'								
30'		SW	30'-32.8' light brown (6/3 7.5YR) medium to course grained sand, moist	56				
31'							0	
32'			32.8'-35' no recovery					
33'								
34'								
35'		GW	35'-37.5' light brown (6/3 7.5YR) sandy gravel, well sorted medium to very course grained, pebbles up to 1 cm, wet	66				
36'								
37'			total depth 37.5 feet					
38'								
39'								
40'								
41'								
42'								
43'								
44'								
45'								
46'								
47'								
48'								
49'								
50'								



SIGNATURE OF SAMPLE TEAM LEADER

FIGURE NO.

DRILLING/SAMPLING ACTIVITY RECORD				PROJECT CODE 233/151/199	SAMPLING PERSONNEL A. Brittain, J. Keck, M. Lloyd, D. Davidson	Date 12/12/2006
SITE Muskogee City-County Port Authority				SAMPLING STATION MPA-2E	COORDINATES 35.775880, -95.305373	SHEET NO. 1
DRILLING METHOD/EQUIPMENT Hollow Steam Auger				HOLE SIZE 2 inch well	DRILLING CONTRACTOR/DRILLER'S NAME AEI, Danny Jarman	
CHRONOLOGICAL RECORD						
TIME		ACTIVITY				
3:38 pm		start drilling				
4:15 pm		stop drilling				
GROUND EL.				GROUTING (Mix Design, Method)		DECONTAMINATION (Method)
		T/CASING EL.	DEPTH H2O	TIME/DATE	Temporary well - Sand pack from 18'-30', bentonite chips 15'-18'	
			24.6	8:40	Alconox with high pressure spray	

BORING LOG

DEPTH BELOW SURFACE	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION / CLASSIFICATION	% CORE RECOV.	SAMPLE LOG	TIME OF SAMPLE RECOVERY	FIELD VAPOR TEST READINGS	WELL CONSTRUCTION
0'		CL	0-5' yellowish brown (5/6 10YR) fine grained silty lean clay	64				
1'								
2'								
3'							0	
4'								
5'		CL	5-10' pale brown (6/3 10YR) fine grained sandy lean clay with some black organic material	100				
6'								
7'								
8'							1.3	
9'								
10'		CL	10-15' strong brown (4/6 7.5YR) fine grained sandy lean clay	100				
11'								
12'								
13'							3.5	
14'								
15'		CL	15-17' strong brown (4/6 7.5YR) fine grained sandy lean clay	100				
16'								
17'		CH	17-20' yellowish brown (5/4 10YR) fine grained fat clay	100				
18'							2	
19'								
20'		CH	20-24' brown (5/3 10YR) fine grained sandy fat clay	100				



SIGNATURE OF SAMPLE TEAM LEADER	FIGURE NO.

DRILLING/SAMPLING ACTIVITY RECORD

PROJECT CODE
233/151/199

SAMPLING PERSONNEL
Amy Brittain, Jarrett Keck,
Meghan Lloyd, Dustin Davidson

Date
12/12/2006

SITE Muskogee City-County Port
Authority

SAMPLING STATION
MPA-2E

COORDINATES
35.775880, -95.305373

SHEET NO.
2

BORING LOG

DEPTH BELOW SURFACE	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION / CLASSIFICATION	% CORE RECOV.	SAMPLE LOG	TIME OF SAMPLE RECOVERY	FIELD VAPOR TEST READINGS	WELL CONSTRUCTION
21'								
22'								
23'								
24'		CH	24-28.5' yellowish brown (5/6 10YR) fine grained sandy fat clay, moist	100			2.4	
25'								
26'								
27'								
28'		CL	28.5- 29.8' brown (5/3 10YR) fine grained sandy lean clay					
29'			29.8-30' black (2/1 10YR) shale				7.5	
30'			Total Depth = 30 feet					
31'								
32'								
33'								
34'								
35'								
36'								
37'								
38'								
39'								
40'								
41'								
42'								
43'								
44'								
45'								
46'								
47'								
48'								
49'								
50'								



SIGNATURE OF SAMPLE TEAM LEADER

FIGURE NO.

DRILLING/SAMPLING ACTIVITY RECORD

SITE Muskogee City-County Port Authority

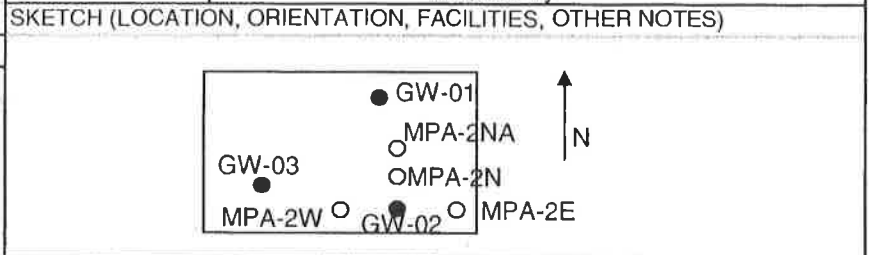
DRILLING METHOD/EQUIPMENT
Hollow Steam Auger

CHRONOLOGICAL RECORD

TIME	ACTIVITY
10:30	post hole down 3 feet
10:41	start drilling
11:15	stop drilling

PROJECT CODE 233/151/199	SAMPLING PERSONNEL A. Brittain, J. Keck, M. Lloyd, D. Davidson	Date 12/12/2006
SAMPLING STATION MPA-2W	COORDINATES 35.775807, -95.307062	SHEET NO. 1

HOLE SIZE 2 inch well	DRILLING CONTRACTOR/DRILLER'S NAME AEI, Danny Jarman
--------------------------	---



GROUND EL.	T/CASING EL.	DEPTH H2O	TIME/DATE	GRROUTING (Mix Design, Method) Temporary well - Sand pack from 35'-23', bentonite chips from 23'-20'	DECONTAMINATION (Method) Alconox with high pressure spray
		32.8	12:26		

BORING LOG

DEPTH BELOW SURFACE	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION / CLASSIFICATION	% CORE RECOV.	SAMPLE LOG	TIME OF SAMPLE RECOVERY	FIELD VAPOR TEST READINGS	WELL CONSTRUCTION
0'		CL	0-2.5' yellowish brown (5/4 10YH) fine grained, lean silty clay	50				
1'								
2'								
3'							0.1	
4'								
5'		CL	5-10' strong brown (4/6 7.5YR) fine grained, lean silty clay	100				
6'								
7'								
8'							0.4	
9'								
10'		CH	10-14' strong brown (5/6 7.5YR) medium to fine grained, sandy fat clay	100				
11'								
12'								
13'							1.3	
14'		CH	14-15' gray (6/1 7.5YR) fine grained fat clay	100				
15'		CH	15-20' light brownish gray (6/2 10YR) fine grained, silty fat clay	100				
16'								
17'								
18'							1.5	
19'								
20'		CL	20-22' pale brown (6/3 10YR) fine grained, silty lean clay	100				



SIGNATURE OF SAMPLE TEAM LEADER	FIGURE NO.

**DRILLING/SAMPLING
ACTIVITY RECORD**

PROJECT CODE
233/151/199

SAMPLING PERSONNEL
Amy Brittain, Jarrett Keck,
Meghan Lloyd, Dustin Davidson

Date
12/12/2006

SITE Muskogee City-County Port
Authority

SAMPLING STATION
MPA-2W

COORDINATES
35.775807, -95.307062

SHEET NO.
2

BORING LOG

DEPTH BELOW SURFACE	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION / CLASSIFICATION	% CORE RECOV.	SAMPLE LOG	TIME OF SAMPLE RECOVERY	FIELD VAPOR TEST READINGS	WELL CONSTRUCTION
21'								
22'		CL	22-25' brown (5/4 7.5YR) sandy lean clay	100				
23'							1.3	
24'								
25'		SC	25-26' brown (5/4 7.5YR) fine to medium grained poorly graded sand with clay	100				
26'		CH	26-29' reddish brown (5/4 5YR) medium to fine grained sandy fat clay, moist	100				
27'								
28'								
29'		CH	29-30' pale brown (6/3 10YR) medium to fine grained sandy fat clay	100			2	
30'		SW	30-35' very pale brown (7/3 10YR) fine to medium grained well-graded sand, wet	70				
31'								
32'							1.3	
33'								
34'								
35'			Total Depth 35 feet					
36'								
37'								
38'								
39'								
40'								
41'								
42'								
43'								
44'								
45'								
46'								
47'								
48'								
49'								
50'								



SIGNATURE OF SAMPLE TEAM LEADER

FIGURE NO.

DRILLING/SAMPLING ACTIVITY RECORD				PROJECT CODE 233/151/199	SAMPLING PERSONNEL A. Brittain, J. Keck, M. Lloyd, D. Davidson	Date 12/12/2006
SITE Muskogee City-County Port Authority				SAMPLING STATION MPA-2N	COORDINATES 35.776552, -95.306069	SHEET NO. 1
DRILLING METHOD/EQUIPMENT Hollow Steam Auger				HOLE SIZE 2 inch well	DRILLING CONTRACTOR/DRILLER'S NAME AEI, Danny Jarman	
CHRONOLOGICAL RECORD						
TIME		ACTIVITY				
1:04 pm		start drilling				
1:30 pm		stop drilling				
GROUND EL.				T/CASING EL.	DEPTH H2O	TIME/DATE
					20	2:03
GRROUTING (Mix Design, Method)				DECONTAMINATION (Method)		
Temporary well - Sand pack from 24'-11', bentonite chips 9'-11'				Alconox with high pressure spray		

BORING LOG

DEPTH BELOW SURFACE	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION / CLASSIFICATION	% CORE RECOV.	SAMPLE LOG	TIME OF SAMPLE RECOVERY	FIELD VAPOR TEST READINGS	WELL CONSTRUCTION
0'		SC	0-1.4' dark brown (3/3 10YR) fine grained poorly sorted sand with clay	100				
1'			1.4-5' dark yellowish brown (4/6 10YR) fine grained silty fat clay	100				
2'							0.2	
3'								
4'								
5'		CL	5'-10' light yellowish brown (5/6 10YR) to light yellowish brown (6/4 10YR) fine grained sandy lean clay with some black organic material	100				
6'								
7'							0.4	
8'								
9'								
10'		CH	10-15' light yellowish brown (6/4 10YR) fine grained silty fat clay with some black organic material	100				
11'								
12'								
13'							0.1	
14'								
15'		CH	15-18.8' yellowish brown (5/4 10YR) fine grained silty fat clay	86				
16'								
17'								
18'		SW	18.8-20' brownish yellow (6/6 10YR) medium to coarse grained well sorted sand, wet	86				
19'							37	
20'		SW	20-23.5' brownish yellow (6/6 10YR) medium to coarse grained well sorted sand, very wet	42				




SIGNATURE OF SAMPLE TEAM LEADER

FIGURE NO.

DRILLING/SAMPLING ACTIVITY RECORD	PROJECT CODE	SAMPLING PERSONNEL		Date
	233/151/199	Amy Brittain, Jarrett Keck, Meghan Lloyd, Dustin Davidson		12/12/2006
SITE Muskogee City-County Port Authority	SAMPLING STATION		COORDINATES	SHEET NO.
	MPA-2N		35.776552, -95.306069	2

BORING LOG

DEPTH BELOW SURFACE	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION / CLASSIFICATION	% CORE RECOV.	SAMPLE LOG	TIME OF SAMPLE RECOVERY	FIELD VAPOR TEST READINGS	WELL CONSTRUCTION
21'							25.5	
22'								
23'			23.5' black shale					
24'			Total Depth=24'					
25'								
26'								
27'								
28'								
29'								
30'								
31'								
32'								
33'								
34'								
35'								
36'								
37'								
38'								
39'								
40'								
41'								
42'								
43'								
44'								
45'								
46'								
47'								
48'								
49'								
50'								

	SIGNATURE OF SAMPLE TEAM LEADER	FIGURE NO.

DRILLING/SAMPLING ACTIVITY RECORD

PROJECT CODE: 233/151/199
 SAMPLING PERSONNEL: Jarrett Keck, Jon Reid
 Date: 12/13/2006

SITE: Muskogee City-County Port Authority

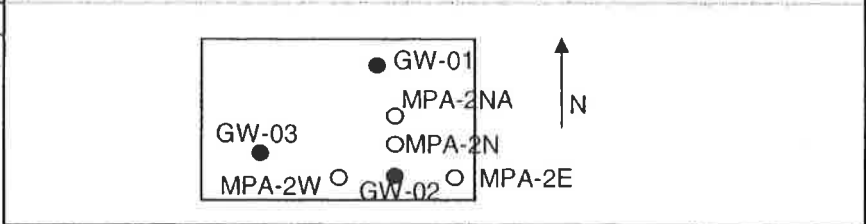
SAMPLING STATION: MPA-2N-A
 COORDINATES: 35.777128, -95.305954
 SHEET NO.: 1

DRILLING METHOD/EQUIPMENT: Hollow Steam Auger

HOLE SIZE: 2 inch well
 DRILLING CONTRACTOR/DRILLER'S NAME: AEI, Danny Jarman

CHRONOLOGICAL RECORD

TIME	ACTIVITY
8:00 am	start drilling
10:03 am	stop drilling



GROUND EL.	T/CASING EL.	DEPTH H2O	TIME/DATE
		19.6	11:30

GROUTING (Mix Design, Method): Temporary well - Sand pack from 24'-13', bentonite chips 11'-13'

DECONTAMINATION (Method): Alconox with high pressure spray

BORING LOG

DEPTH BELOW SURFACE	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION / CLASSIFICATION	% CORE RECOV.	SAMPLE LOG	TIME OF SAMPLE RECOVERY	FIELD VAPOR TEST READINGS	WELL CONSTRUCTION
0'		CL	0-5' yellowish orange (5/4 7.5YR) medium lean clay	100				
1'								
2'							1.9	
3'								
4'		CL	4-5' yellowish orange (5/4 7.5YR) lean clay	100				
5'								
6'								
7'		CL	7.5-8.5' yellowish orange (5/4 7.5YR) fine grained sandy lean clay	50				
8'		CL	8.5-10' yellowish orange (4/4 7.5YR) lean clay	50			0.4	
9'								
10'		CL	10-14' yellowish orange (5/4 7.5YR) fine sandy lean clay	100				
11'								
12'								
13'								
14'		CH	14-15' light gray (5/1 7.5YR) silty fat clay	100			0.2	
15'								
16'								
17'		CL	17-19' light brown (4/4 7.5YR) fine grained sandy lean clay	60				
18'								
19'		SP	19-20' light brown (4/4 7.5YR) medium grained poorly sorted sand, wet	60			2.4	
20'		SP	20-24' orange brown (5/6 7.5YR) medium grained poorly sorted sand	100				



SIGNATURE OF SAMPLE TEAM LEADER

FIGURE NO.

DRILLING/SAMPLING ACTIVITY RECORD

PROJECT CODE

233/151/199

SAMPLING PERSONNEL

Jarrett Keck, Jon Reid

Date

12/13/2006

SITE Muskogee City-County Port
Authority

SAMPLING STATION

MPA-2N-A

COORDINATES

35.777128, -95.305954

SHEET NO.

2

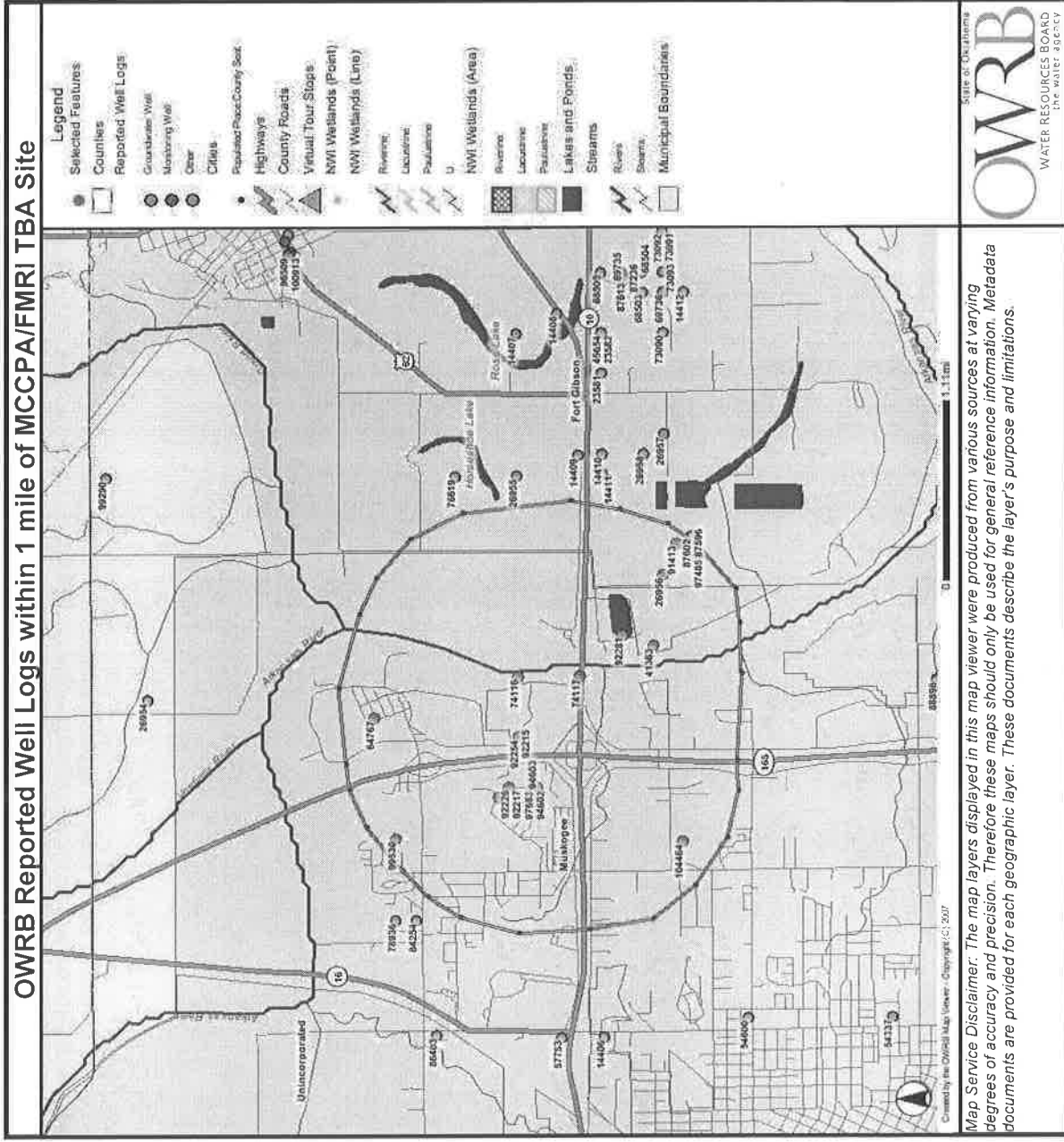
BORING LOG

DEPTH BELOW SURFACE	GRAPHIC LOG	SOIL CLASSIFICATION	DESCRIPTION / CLASSIFICATION	% CORE RECOV.	SAMPLE LOG	TIME OF SAMPLE RECOVERY	FIELD VAPOR TEST READINGS	WELL CONSTRUCTION
21'								
22'								
23'							20	
24'			24' black shale					
25'								
26'								
27'								
28'								
29'								
30'								
31'								
32'								
33'								
34'								
35'								
36'								
37'								
38'								
39'								
40'								
41'								
42'								
43'								
44'								
45'								
46'								
47'								
48'								
49'								
50'								



SIGNATURE OF SAMPLE TEAM LEADER

FIGURE NO.



Reported Well Logs

Rec	Latitude	Longitude	Well ID	County	Well Type	Permit Number	Quarter 1	Quarter 2	Quarter 3	Section	Township	Range	Use Class	Total Depth	First Water	Approximate Yield
1	35.762	-95.287	91413	Muskogee	Groundwater Well		NW	NW	SW	22	15N	19E1	Industrial	62	30	250
2	35.775931	-95.308175	92215	Muskogee	Groundwater Test Hole		NW	NE	SE	17	15N	19E1	Water Location	0	0	0
3	35.76684	-95.319338	99530	Muskogee	Geothermal or Heat Pump Well		NE	SW	SW	08	15N	19E1	Heat Exchange	200	0	0
4	35.763162	-95.290403	28956	Muskogee	Groundwater Well		SW	SE	NE	21	15N	19E1	Industrial	42	23	340
5	35.770509	-95.301556	74117	Muskogee	Monitoring Well		SE	SW	SW	16	15N	19E1	Water Quality	27	0	0
6	35.776835	-95.313743	92216	Muskogee	Groundwater Test Hole		NW	NE	SE	17	15N	19E1	Water Location	0	0	0
7	35.777735	-95.314857	96510	Muskogee	Groundwater Well		SE	SE	NW	17	15N	19E1	Domestic	280	0	0
8	35.7746333	-95.3139167	94602	Muskogee	Monitoring Well		SE	NE	SW	17	15N	19E1	Site Assessment	14	0	0
9	35.7744	-95.3137833	97682	Muskogee	Monitoring Well		SE	NE	SW	17	15N	19E1	Site Assessment	14	0	0
10	35.766776	-95.297084	92281	Muskogee	Groundwater Well		SE	NE	NW	21	15N	19E1	Domestic	302	20	0
11	35.7743333	-95.3137833	94603	Muskogee	Monitoring Well		SE	NE	SW	17	15N	19E1	Site Assessment	12.5	0	0
12	35.7747	-95.3139	97683	Muskogee	Monitoring Well		SE	NE	SW	17	15N	19E1	Site Assessment	14	0	0
13	35.7616333	-95.3198667	104464	Muskogee	Groundwater Well		NE	NW	SW	20	15N	19E1	Domestic	225	0	2
14	35.77593	-95.308175	92254	Muskogee	Groundwater Test Hole		NW	NE	SE	17	15N	19E1	Water Location	0	0	0
15	35.775931	-95.301556	74116	Muskogee	Monitoring Well		NE	NW	SW	16	15N	19E1	Water Quality	17	0	0
16	35.776835	-95.313743	92217	Muskogee	Groundwater Test Hole		NW	NE	SE	17	15N	19E1	Water Location	0	0	0
17	35.776835	-95.313743	92226	Muskogee	Monitoring Well		NW	NE	SE	17	15N	19E1	Water Quality	0	0	0
18	35.7602	-95.2885	97485	Muskogee	Groundwater Well		SE	NE	SE	21	15N	19E1	Commercial	60	34	150
19	35.764066	-95.298197	41363	Muskogee	Groundwater Well			SE	NW	21	15N	19E1	Industrial	48	24	0
20	35.788647	-95.305971	64767	Muskogee	Geotechnical Boring		SE	NE	SE	08	15N	19E1	Soil Evaluation	43.6	0	0

Zoom to these records



theoklahomawaterresourcesboard

Download Results to CSV <small>(ALT-D)</small>	New Search <small>(ALT-N)</small>	Graph Water Levels <small>(ALT-G)</small>	Save Wells for Graphi <small>(ALT-W)</small>
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View Drought Monitoring Map and Water Level Graphs

Help & Search

Search Results for 16-18, 15N, 19E1

Displaying Results 1 thr

Well ID	County	Owner Name	Qtrs	SEC-TWP-RGE	Date Const	Well Type	Use	TD (ft)	Static WL	First Zone	Meas. WL	E Y
74116	Muskogee	Fansteel, Inc.	NENWSW	16-15N-19E1	09/24/02	Monitoring Well	Water Quality	17	n/a	n/a	n/a	
74117	Muskogee	Fan Steel, Inc.	SESWSW	16-15N-19E1	09/24/02	Monitoring Well	Water Quality	27	n/a	n/a	n/a	
96510	Muskogee	Economy Plumbing Heating & Air	SESENW	17-15N-19E1	07/09/05	Groundwater Well	Domestic	280	n/a	n/a	n/a	
94602	Muskogee	Indian Capital Technology Cent	SENESEW	17-15N-19E1	06/13/05	Monitoring Well	Site Assessment	14	n/a	n/a	n/a	
94603	Muskogee	Indian Capital Technology Cent	SENESEW	17-15N-19E1	06/13/05	Monitoring Well	Site Assessment	12.5	n/a	n/a	n/a	
97682	Muskogee	Indian Capital Technology Ctr	SENESEW	17-15N-19E1	11/10/05	Monitoring Well	Site Assessment	14	n/a	n/a	n/a	
97683	Muskogee	Indian Capital Technology Ctr	SENESEW	17-15N-19E1	11/10/05	Monitoring Well	Site Assessment	14	n/a	n/a	n/a	

Help & Search Results Key

This search does not necessarily contain information about all of the water wells within the area of interest. The multi-purpose well completion report database consist information submitted to the Board for all well data reported by licensed firms since 1982 and monitoring well data reported since 1988. There could be other wells in t which are not included in our database. Wells drilled prior to the licensing requirements for well drillers would not necessarily have had a well log submitted to the OW survey may need to be conducted to verify the presence or absence of other water wells.

The Oklahoma Water Resources Board does not guarantee the accuracy of the data shown in the well completion records. Data entered into the database are as repr well drillers and much of the data have not been field verified for accuracy. If any errors in the records are discovered, please bring them to our attention so that correc database may be made.

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the oklahoma water resources board

Download Results to CSV <small>(ALT-D)</small>	New Search <small>(ALT-N)</small>	Graph Water Levels <small>(ALT-G)</small>	Save Wells for Graph <small>(ALT-W)</small>
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[View Drought Monitoring Map and Water Level Graphs](#)

[Help & Search F](#)

Search Results for 16-18, 15N, 19E1

Displaying Results 1 thro

Well ID	County	Owner Name	Qtrs	SEC-TWP-RGE	Date Const	Well Type	Use	TD (ft)	Static WL	First Zone	Meas. WL	Est. Yld
92254	Muskogee	Zapata Industries, Inc.	NWNESE	17-15N-19E1	n/a	Groundwater Test Hole	Water Location	n/a	n/a	n/a	n/a	n/a
92215	Muskogee	Zapata Industries, Inc.	NWNESE	17-15N-19E1	n/a	Groundwater Test Hole	Water Location	n/a	n/a	n/a	n/a	n/a
92216	Muskogee	Zapata Industries, Inc.	NWNESE	17-15N-19E1	n/a	Groundwater Test Hole	Water Location	n/a	n/a	n/a	n/a	n/a
92217	Muskogee	Zapata Industries, Inc.	NWNESE	17-15N-19E1	04/28/04	Groundwater Test Hole	Water Location	n/a	n/a	n/a	n/a	n/a
92226	Muskogee	Zapata Industries, Inc.	NWNESE	17-15N-19E1	n/a	Monitoring Well	Water Quality	n/a	n/a	n/a	n/a	n/a
106107	Muskogee	Muskogee City County	NENESE	17-15N-19E1	12/12/06	Monitoring Well	Site Assessment	35	n/a	26	n/a	n/a
106108	Muskogee	Muskogee City County	NENESE	17-15N-19E1	12/12/06	Monitoring Well	Site Assessment	24	n/a	19	n/a	n/a
106109	Muskogee	Muskogee City County	NENESE	17-15N-19E1	12/12/06	Monitoring Well	Site Assessment	30	n/a	n/a	n/a	n/a

Help & Search Results Key

This search does not necessarily contain information about all of the water wells within the area of interest. The multi-purpose well completion report database consist information submitted to the Board for all well data reported by licensed firms since 1982 and monitoring well data reported since 1988. There could be other wells in t which are not included in our database. Wells drilled prior to the licensing requirements for well drillers would not necessarily have had a well log submitted to the OW survey may need to be conducted to verify the presence or absence of other water wells.

The Oklahoma Water Resources Board does not guarantee the accuracy of the data shown in the well completion records. Data entered into the database are as repr the well drillers and much of the data have not been field verified for accuracy. If any errors in the records are discovered, please bring them to our attention so that cc to the database may be made.

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MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North

WELL ID NUMBER: 92215

Grid showing well location in a 10-acre tract, with an 'X' marking the well location in the 4th row, 7th column.

One Mile
Each square is 10-acres

Quarters NW-NE-SE Section 17 Township 15N Range 19E1

Latitude 35.775931 Longitude -95.308175
Date collected(latitude and longitude), if different from date the well was drilled: 02/18/2005
Method latitude and longitude was collected: Mathematical conversion program

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Zapata Industries, Inc.
Address/City/State 4400 Don Cayo Dr. Muskogee OK
Finding Location
Well Name

Phone (918) 683-4577
Zip 74403

Water Rights #:

TYPE OF WORK: Groundwater Test Hole

USE OF WELL: Water Location

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed
Number of wells or borings represented by this log 1
* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.
Surface Pipe Material: Surface Pipe Diameter inches Surface Pipe From ft to ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATIONFilter Pack Material: **WELL SEAL INFORMATION**Type of Surface Seal n/aSurface Seal Interval: From n/a ft to n/a ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: **HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
no lithological description obtained			

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged 04/22/2004Total Depth of well being plugged 30 ft.Was the well contaminated or was it plugged as though it was contaminated? NoIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? YesWas the grout tremied? NoBackfilled with n/aBackfilled from ft. to ft.Grouted with Bentonite Granules/ChipsGrouted from 0 ft. to 30 ft.Grouted with CementGrouted from ft. to ft.Firm Name Mohawk Drilling, Inc.D/PC No. DPC-0563Operator Name OP No. OP-1263Date 02/09/2005Comments: n/a

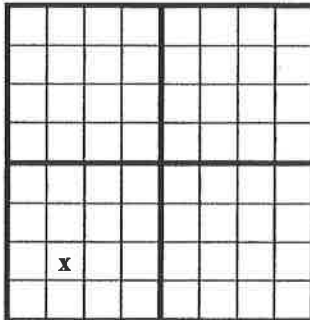


MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
 3800 North Classen Boulevard
 Oklahoma City, OK 73118
 Telephone (405) 530-8800

Legal Location
 North

WELL ID NUMBER: 99530



Quarters NE-SW-SW Section 08 Township 15N Range 19E1

Latitude <u>35.78684</u>	Longitude <u>-95.319338</u>
Date collected(latitude and longitude), if different from date the well was drilled: <u>02/26/2006</u>	
Method latitude and longitude was collected: <u>Mathematical conversion program</u>	

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Tim king
 Address/City/State 3704 N. Country Club Road Muskogee OK
 Finding Location _____
 Well Name GT1-5

Phone _____

Zip _____

Water Rights #: _____

TYPE OF WORK: Geothermal or Heat Pump Well

USE OF WELL: Heat Exchange

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 01/03/2006
 Number of wells or borings represented by this log 8
 * (Borings are within the same 10 acre-tract and with the same general depths and lithologies)
 Hole Diameter 7.875 inches to a depth of 42 ft.
 Hole Diameter 4.5 inches to a depth of 200 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: PVC/Plastic Surface Pipe Diameter 1 inches Surface Pipe From 0 ft to 200 ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATIONFilter Pack Material: **WELL SEAL INFORMATION**Type of Surface Seal H. S. Bentonite GroutSurface Seal Interval: From 0 ft to 200 ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: **HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
Silty sand and clay	0	40	Y
Shale with limestones	40	200	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? NoAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? YDistance of Well is < 50 feet from possible source. Type of possible source: House**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/aTotal Depth of well being plugged ft.Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/aBackfilled from ft. to ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from ft. to ft.Firm Name Giles Environmental Services, Inc.D/PC No. DPC-0596Operator Name GILES, CLARKOP No. OP-1182Date 02/26/2006Comments: n/a

MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT



Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North

Grid table representing the legal location with an 'X' in the 4th column and 3rd row.

«----- One Mile -----»
Each square is 10-acres

WELL ID NUMBER: 26956

Quarters SW-SE-NE Section 21 Township 15N Range 19E

Latitude 35.763162 Longitude -95.290403
Date collected(latitude and longitude), if different from date the well was drilled: 01/08/1998
Method latitude and longitude was collected: Interpolation from PLSS

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Okla. Gas & Elec. Co.

Phone _____

Address/City/State Oklahoma OK

Zip _____

Finding Location 4 miles east of Muskogee, Oklahoma

Well Name No. 4

Water Rights #: _____

TYPE OF WORK: Groundwater Well

USE OF WELL: Industrial

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 12/07/1961

Number of wells or borings represented by this log 1

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 42 inches to a depth of 40 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: _____ Surface Pipe Diameter _____ inches Surface Pipe From _____ ft to _____ ft

1) Well Casing Material H.C. Steel Casing Diameter 12 inches Casing From 0 ft to 37 ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATION

Filter Pack Material: _____

WELL SEAL INFORMATIONType of Surface Seal n/aSurface Seal Interval: From n/a ft to n/a ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: Above Ground**HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well 340 gpmFirst water zone 23 ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
soil silt	0	2.5	N
red soil sand	2.5	5	N
sandy soil	5	7.5	N
light sand	7.5	10	N
silt sand	10	12.5	N
white sand	12.5	15	N
sand, some rock	15	17.5	N
sand, some rock	17.5	20	N
rock, sand, silt	20	22.5	N
rock, sand, silt	22.5	25	N
gravel, sand	25	27.5	N
gravel, sand	27.5	30	N
clear sand, rock	30	32.5	N
wood, trash, rotten logs	32.5	35	N
gravel, rock, sand	35	37.5	N
sand, gravel	37.5	40	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/aTotal Depth of well being plugged ft.Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/aBackfilled from ft. to ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from ft. to ft.Firm Name Earl R. KelleyD/PC No. Operator Name OP No. Date 06/23/1962

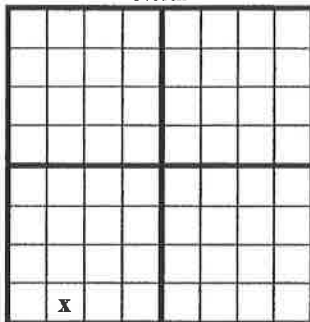
Comments: Pump test 340 gpm for 8 hr. drawdown 89" after bailing 8 hr. to 340 gpm. Turbine pump, capacity 250 gpm against 157 feet at head, depth in bowls 33 ft., electric.



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North



«————— One Mile —————»
Each square is 10-acres

WELL ID NUMBER: 74117

Quarters SE-SW-SW Section 16 Township 15N Range 19E1

Latitude 35.770509 Longitude -95.301556
Date collected(latitude and longitude), if different from date the well was drilled: 01/02/2003
Method latitude and longitude was collected: Interpolation from PLSS

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Fan Steel, Inc.

Phone (918) 687-6305

Address/City/State 10 Tantalum Place Muskogee OK

Zip 74403

Finding Location

Well Name

Water Rights #:

TYPE OF WORK: Monitoring Well

USE OF WELL: Water Quality

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 09/24/2002

Number of wells or borings represented by this log 1

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 8.5 inches to a depth of 27 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: Surface Pipe Diameter inches Surface Pipe From ft to ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATION

Filter Pack Material:

WELL SEAL INFORMATION

Type of Surface Seal n/a

Surface Seal Interval: From n/a ft to n/a ft

Type of Annular Seal n/a

Annular Seal Interval: From n/a ft to n/a ft

Filter Pack Seal Material n/a

Filter Pack Seal Interval: From n/a ft to n/a ft

TYPE OF COMPLETION:

HYDROLOGIC INFORMATION

Depth to water at time of drilling ft

Estimated yield of well gpm

First water zone ft

LITHOLOGY DESCRIPTION

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
no lithological description obtained			

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTION

Has this well been disinfected after completion of work? n/a

Are there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/a

Distance of Well is n/a from possible source. Type of possible source: n/a

PLUGGING INFORMATION

Date Well or Boring Was Plugged n/a

Total Depth of well being plugged ft.

Was the well contaminated or was it plugged as though it was contaminated? n/a

If the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/a

Was the grout tremied? n/a

Backfilled with n/a

Backfilled from ft. to ft.

Grouted with n/a

Grouted from ft. to ft.

Grouted with Cement

Grouted from ft. to ft.

Firm Name Mohawk Drilling, Inc.

D/PC No. DPC-0563

Operator Name

OP No.

Date n/a

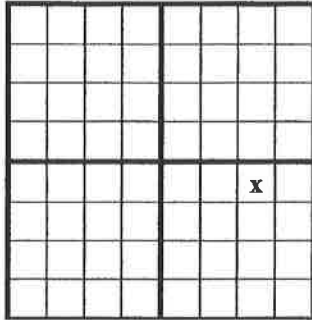
Comments: n/a



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
 3800 North Classen Boulevard
 Oklahoma City, OK 73118
 Telephone (405) 530-8800

Legal Location
 North



«————— One Mile —————»
 Each square is 10-acres

WELL ID NUMBER: 92216

Quarters NW-NE-SE **Section** 17 **Township** 15N **Range** 19E1

Latitude 35.776835 Longitude -95.313743
Date collected(latitude and longitude), if different from date the well was drilled: 04/05/2005
Method latitude and longitude was collected: Mathematical conversion program

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Zapata Industries, Inc.
 Address/City/State 4400 Don Cayo Dr. Muskogee OK
 Finding Location _____
 Well Name _____

Phone (918) 683-4577
 Zip 74403

Water Rights #: _____

TYPE OF WORK: Groundwater Test Hole

USE OF WELL: Water Location

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed _____
 Number of wells or borings represented by this log 1
 * (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: _____ Surface Pipe Diameter _____ inches Surface Pipe From _____ ft to _____ ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATIONFilter Pack Material: **WELL SEAL INFORMATION**Type of Surface Seal n/aSurface Seal Interval: From n/a ft to n/a ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: **HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
no lithological description obtained			

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged 04/22/2004Total Depth of well being plugged 20 ft.Was the well contaminated or was it plugged as though it was contaminated? NoIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? YesWas the grout tremied? NoBackfilled with n/aBackfilled from ft. to ft.Grouted with Bentonite Granules/ChipsGrouted from 0 ft. to 20 ft.Grouted with CementGrouted from ft. to ft.Firm Name Mohawk Drilling, Inc.D/PC No. DPC-0563Operator Name BRANTLEY, ALLANOP No. OP-1236Date 02/09/2005Comments: n/a



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North

WELL ID NUMBER: 96510

Quarters SE-SE-NW Section 17 Township 15N Range 19E1

Latitude <u>35.777739</u>	Longitude <u>-95.314857</u>
Date collected(latitude and longitude), if different from date the well was drilled: <u>09/23/2005</u>	
Method latitude and longitude was collected: <u>Mathematical conversion program</u>	

«----- One Mile -----»
Each square is 10-acres

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Economy Plumbing Heating & Air
Address/City/State 3916 Puitter Place Muskogee OK
Finding Location _____
Well Name _____

Phone _____
Zip _____

Water Rights #: _____

TYPE OF WORK: Groundwater Well

USE OF WELL: Domestic

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 07/09/2005
Number of wells or borings represented by this log 1
* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)
Hole Diameter 8 inches to a depth of 42 ft.
Hole Diameter 4.5 inches to a depth of 280 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: ___ Surface Pipe Diameter ___ inches Surface Pipe From ___ ft to ___ ft
1) Well Casing Material Other Casing Diameter 1 inches Casing From 0 ft to 280 ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATIONFilter Pack Material: Sand 10-20 (coarse)Filter Pack Interval: From 0 ft to 280**WELL SEAL INFORMATION**Type of Surface Seal n/aSurface Seal Interval: From n/a ft to n/a ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: **HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
no lith.	0	280	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/aTotal Depth of well being plugged ft.Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/aBackfilled from ft. to ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from ft. to ft.Firm Name Giles Environmental Services, Inc.D/PC No. DPC-0596Operator Name OP No. Date 08/19/2005Comments: n/a

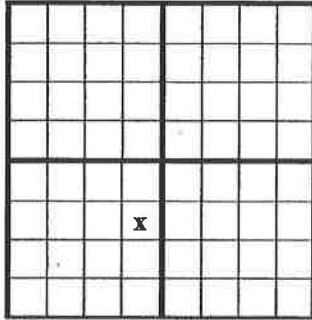


MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North

WELL ID NUMBER: 94602



«———— One Mile —————»
Each square is 10-acres

Quarters SE-NE-SW Section 17 Township 15N Range 19E1

Latitude 35.7746333 Longitude -95.3139167
Date collected(latitude and longitude), if different from date the well was drilled: 06/13/2005
Method latitude and longitude was collected: Mathematical conversion program

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Indian Capital Technology Cent

Phone (918) 687-6383

Address/City/State 2403 North 41st East Muskogee OK

Zip 74403

Finding Location Indian Capital Technology Center - 2403 North 41st East - Muskogee, Oklahoma

Well Name TP#1 & TP#2

Water Rights #:

TYPE OF WORK: Monitoring Well

USE OF WELL: Site Assessment

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 06/13/2005

Number of wells or borings represented by this log 2

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 7.75 inches to a depth of 14 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: Surface Pipe Diameter inches Surface Pipe From ft to ft

1) Well Casing Material PVC Casing Diameter 2 inches Casing From 0 ft to 2 ft

SCREEN OR PERFORATION INFORMATION

Type of Screen: PVC Type of Slots or Openings: Factory Slotted - 10 slot (0.010 inch) From 2 ft to 14 ft.

FILTER PACK INFORMATIONFilter Pack Material: Native MaterialFilter Pack Interval: From 2 ft to 14**WELL SEAL INFORMATION**Type of Surface Seal Cement GroutSurface Seal Interval: From 0 ft to 2 ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: Flush Mounted**HYDROLOGIC INFORMATION**

Depth to water at time of drilling ___ ft

Estimated yield of well ___ gpm

First water zone ___ft

LITHOLOGY DESCRIPTION

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
Fill	0	11.5	N
Clay	11.5	14	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/a

Total Depth of well being plugged ___ ft.

Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/a

Backfilled from ___ ft. to ___ ft.

Grouted with n/a

Grouted from ___ ft. to ___ ft.

Grouted with Cement

Grouted from ___ ft. to ___ ft.

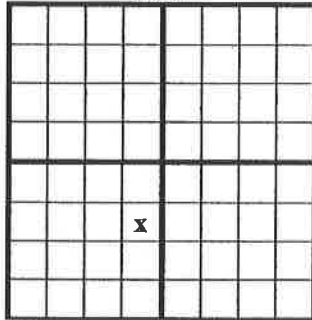
Firm Name Associated Environmental Industries, Corp.D/PC No. DPC-0269Operator Name CLARK, CHARLESOP No. OP-1210Date 06/16/2005Comments: n/a



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North



«———— One Mile —————»
Each square is 10-acres

WELL ID NUMBER: 97682

Quarters SE-NE-SW Section 17 Township 15N Range 19E1

Latitude 35.7744 Longitude -95.3137833
Date collected(latitude and longitude), if different from date the well was drilled: 11/10/2005
Method latitude and longitude was collected: Mathematical conversion program

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Indian Capital Technology Ctr

Phone (918) 687-6383

Address/City/State 2403 North 41st East Muskogee OK

Zip 74403

Finding Location Indian Capital Technology Center - 2403 North 41st East - Muskogee, Oklahoma

Well Name MW-3

Water Rights #:

TYPE OF WORK: Monitoring Well

USE OF WELL: Site Assessment

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 11/10/2005

Number of wells or borings represented by this log 1

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 7.75 inches to a depth of 14 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: Surface Pipe Diameter inches Surface Pipe From ft to ft

1) Well Casing Material PVC Casing Diameter 2 inches Casing From 0 ft to 2 ft

SCREEN OR PERFORATION INFORMATION

Type of Screen: PVC Type of Slots or Openings: Factory Slotted - 10 slot (0.010 inch) From 2 ft to 14 ft.

FILTER PACK INFORMATIONFilter Pack Material: Native MaterialFilter Pack Interval: From 1 ft to 14**WELL SEAL INFORMATION**Type of Surface Seal Cement GroutSurface Seal Interval: From 0 ft to 1 ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: Flush Mounted**HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
Pea Gravel	0	14	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/aTotal Depth of well being plugged ft.Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/aBackfilled from ft. to ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from ft. to ft.Firm Name Associated Environmental Industries, Corp.D/PC No. DPC-0269Operator Name CULIE, EDWARDOP No. OP-1433Date 11/21/2005Comments: n/a



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North

WELL ID NUMBER: 92281

Quarters SE-NE-NW Section 21 Township 15N Range 19E1

Latitude <u>35.766776</u>	Longitude <u>-95.297084</u>
Date collected(latitude and longitude), if different from date the well was drilled: <u>02/23/2005</u>	
Method latitude and longitude was collected: <u>Mathematical conversion program</u>	

«———— One Mile —————»
Each square is 10-acres

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Port of Muskogee c/o Geo Enter

Phone _____

Address/City/State 2660 N. Hwy 167 Catoosa OK

Zip 74015

Finding Location S of Hwy 62, E of Arkansas River, E side of visitors center parking lot.

Well Name _____

Water Rights #: _____

TYPE OF WORK: Groundwater Well

USE OF WELL: Domestic

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 02/14/2005

Number of wells or borings represented by this log 1

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 11.75 inches to a depth of 55 ft.

Hole Diameter 6 inches to a depth of 302 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: ___ Surface Pipe Diameter ___ inches Surface Pipe From ___ ft to ___ ft

1) Well Casing Material Other Casing Diameter 1 inches Casing From 0 ft to 302 ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATIONFilter Pack Material: **WELL SEAL INFORMATION**Type of Surface Seal Cement GroutSurface Seal Interval: From 0 ft to 302 ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: **HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone 20 ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
silty fine/med sand	0	30	N
sand, coarse gravel cobbles to 6"	30	55	N
shale, gray	55	95	N
limestone	95	105	N
shale w/limestone stringers	105	302	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/aTotal Depth of well being plugged ft.Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/aBackfilled from ft. to ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from ft. to ft.Firm Name Giles Environmental Services, Inc.D/PC No. DPC-0596Operator Name OP No. Date 02/18/2005Comments: n/a



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North

WELL ID NUMBER: 94603

Grid table representing a 10x10 acre tract with an 'X' in the 4th row, 3rd column.

«----- One Mile -----»
Each square is 10-acres

Quarters SE-NE-SW Section 17 Township 15N Range 19E1

Latitude 35.7743333 Longitude -95.3137833
Date collected(latitude and longitude), if different from date the well was drilled: 06/13/2005
Method latitude and longitude was collected: Mathematical conversion program

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Indian Capital Technology Cent

Phone (918) 687-6383

Address/City/State 2403 North 41st East Muskogee OK

Zip 74403

Finding Location Indian Capital Technology Center - 2403 North 41st East - Muskogee, Oklahoma

Well Name TP#3 & TP#4

Water Rights #: _____

TYPE OF WORK: Monitoring Well

USE OF WELL: Site Assessment

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 06/13/2005

Number of wells or borings represented by this log 2

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 7.75 inches to a depth of 12.5 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: ___ Surface Pipe Diameter ___ inches Surface Pipe From ___ ft to ___ ft

1) Well Casing Material PVC Casing Diameter 2 inches Casing From 0 ft to 2 ft

SCREEN OR PERFORATION INFORMATION

Type of Screen: PVC Type of Slots or Openings: Factory Slotted - 10 slot (0.010 inch) From 2 ft to 12.5 ft.

FILTER PACK INFORMATIONFilter Pack Material: Native MaterialFilter Pack Interval: From 2 ft to 12.5**WELL SEAL INFORMATION**Type of Surface Seal Cement GroutSurface Seal Interval: From 0 ft to 2 ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: Flush Mounted**HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
Fill	0	10	N
Clay	10	12.5	N

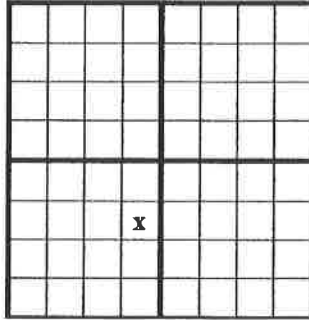
WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/aTotal Depth of well being plugged ft.Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/aBackfilled from ft. to ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from ft. to ft.Firm Name Associated Environmental Industries, Corp.D/PC No. DPC-0269Operator Name CLARK, CHARLESOP No. OP-1210Date 06/16/2005Comments: n/a



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
 3800 North Classen Boulevard
 Oklahoma City, OK 73118
 Telephone (405) 530-8800

Legal Location
 North

WELL ID NUMBER: 97683

Quarters SE-NE-SW Section 17 Township 15N Range 19E1

Latitude <u>35.7747</u>	Longitude <u>-95.3139</u>
Date collected (latitude and longitude), if different from date the well was drilled: <u>11/10/2005</u>	
Method latitude and longitude was collected: <u>Mathematical conversion program</u>	

County MuskogeeVariance Request No. (if applicable) n/a**WELL OWNER - NAME AND ADDRESS**Well Owner Indian Capital Technology Ctr.Phone (918) 687-6938Address/City/State 2403 North 41st East Muskogee OKZip 74403Finding Location Indian Capital Technology Center - 2403 North 41st East - Muskogee, OklahomaWell Name MW-4Water Rights #: TYPE OF WORK: Monitoring WellUSE OF WELL: Site Assessment**NEW WELL CONSTRUCTION DATA**Date Well or Boring Was Completed 11/10/2005Number of wells or borings represented by this log 1

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 7.75 inches to a depth of 14 ft.**CASING INFORMATION** *Note: If surface casing is used please indicate that on the appropriate well casing information line.Surface Pipe Material: Surface Pipe Diameter inches Surface Pipe From ft to ft1) Well Casing Material PVC Casing Diameter 2 inches Casing From 0 ft to 2 ft**SCREEN OR PERFORATION INFORMATION**Type of Screen: PVC Type of Slots or Openings: Factory Slotted - 10 slot (0.010 inch) From 2 ft to 14 ft.

FILTER PACK INFORMATIONFilter Pack Material: Native MaterialFilter Pack Interval: From 1 ft to 14**WELL SEAL INFORMATION**Type of Surface Seal Cement GroutSurface Seal Interval: From 0 ft to 1 ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: Flush Mounted**HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
Concrete	0	.5	N
Fill Sand	.5	14	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/aTotal Depth of well being plugged ft.Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/aBackfilled from ft. to ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from ft. to ft.Firm Name Associated Environmental Industries, Corp.D/PC No. DPC-0269Operator Name CULIE, EDWARDOP No. OP-1433Date 11/21/2005Comments: n/a



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
 3800 North Classen Boulevard
 Oklahoma City, OK 73118
 Telephone (405) 530-8800

Legal Location
 North

«———— One Mile —————»
 Each square is 10-acres

WELL ID NUMBER: 92254

Quarters NW-NE-SE **Section** 17 **Township** 15N **Range** 19E1

Latitude <u>35.775931</u>	Longitude <u>-95.308175</u>
Date collected (latitude and longitude), if different from date the well was drilled: <u>02/22/2005</u>	
Method latitude and longitude was collected: <u>Mathematical conversion program</u>	

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Zapata Industries, Inc.
 Address/City/State 4400 Don Cayo Drive Muskogee OK
 Finding Location _____
 Well Name TMW-5

Phone (918) 683-4577
 Zip 74406

Water Rights #: _____

TYPE OF WORK: Groundwater Test Hole

USE OF WELL: Water Location

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed _____
 Number of wells or borings represented by this log 1
 * (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: _____ Surface Pipe Diameter _____ inches Surface Pipe From _____ ft to _____ ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATIONFilter Pack Material: **WELL SEAL INFORMATION**Type of Surface Seal n/aSurface Seal Interval: From n/a ft to n/a ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: **HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
no lithological description obtained			

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged 04/28/2004Total Depth of well being plugged 27.5 ft.Was the well contaminated or was it plugged as though it was contaminated? NoIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? YesWas the grout tremied? NoBackfilled with n/aBackfilled from ft. to ft.Grouted with Bentonite Granules/ChipsGrouted from 0 ft. to 27.5 ft.Grouted with CementGrouted from ft. to ft.Firm Name Mohawk Drilling, Inc.D/PC No. DPC-0563Operator Name BRANTLEY, ALLANOP No. OP-1236Date 02/09/2005Comments: n/a



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
 3800 North Classen Boulevard
 Oklahoma City, OK 73118
 Telephone (405) 530-8800

Legal Location
 North

WELL ID NUMBER: 74116

«----- One Mile -----»
 Each square is 10-acres

Quarters NE-NW-SW Section 16 Township 15N Range 19E1

Latitude	<u>35.775931</u>	Longitude	<u>-95.301556</u>
Date collected(latitude and longitude), if different from date the well was drilled:	<u>01/02/2003</u>		
Method latitude and longitude was collected:	<u>Interpolation from PLSS</u>		

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Fansteel, Inc.

Phone (918) 687-6305

Address/City/State 10 Tantalum Place Muskogee OK

Zip _____

Finding Location _____

Well Name _____

Water Rights #: _____

TYPE OF WORK: Monitoring Well

USE OF WELL: Water Quality

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 09/24/2002

Number of wells or borings represented by this log 1

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 8.5 inches to a depth of 17 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: Surface Pipe Diameter inches Surface Pipe From ft to ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATION

Filter Pack Material: ___

WELL SEAL INFORMATIONType of Surface Seal n/aType of Annular Seal n/aFilter Pack Seal Material n/aSurface Seal Interval: From n/a ft to n/a ftAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Interval: From n/a ft to n/a ft

TYPE OF COMPLETION: ___

HYDROLOGIC INFORMATION

Depth to water at time of drilling ___ ft

Estimated yield of well ___ gpm

First water zone ___ft

LITHOLOGY DESCRIPTION

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
no lithological description obtained			

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged n/a

Total Depth of well being plugged ___ ft.

Was the well contaminated or was it plugged as though it was contaminated? n/aIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/aWas the grout tremied? n/aBackfilled with n/a

Backfilled from ___ ft. to ___ ft.

Grouted with n/a

Grouted from ___ ft. to ___ ft.

Grouted with Cement

Grouted from ___ ft. to ___ ft.

Firm Name Mohawk Drilling, Inc.D/PC No. DPC-0563

Operator Name ___

OP No. ___

Date n/aComments: n/a

FILTER PACK INFORMATION

Filter Pack Material: ___

WELL SEAL INFORMATIONType of Surface Seal n/aSurface Seal Interval: From n/a ft to n/a ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material n/aFilter Pack Seal Interval: From n/a ft to n/a ft

TYPE OF COMPLETION: ___

HYDROLOGIC INFORMATION

Depth to water at time of drilling ___ ft

Estimated yield of well ___ gpm

First water zone ___ft

LITHOLOGY DESCRIPTION

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
no lithological description obtained			

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged 04/28/2004Total Depth of well being plugged 25.5 ft.Was the well contaminated or was it plugged as though it was contaminated? NoIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? YesWas the grout tremied? NoBackfilled with n/a

Backfilled from ___ ft. to ___ ft.

Grouted with Bentonite Granules/ChipsGrouted from 0 ft. to 25.5 ft.Grouted with Cement

Grouted from ___ ft. to ___ ft.

Firm Name Mohawk Drilling, Inc.D/PC No. DPC-0563Operator Name BRANTLEY, ALLANOP No. OP-1236Date 02/09/2005Comments: n/a

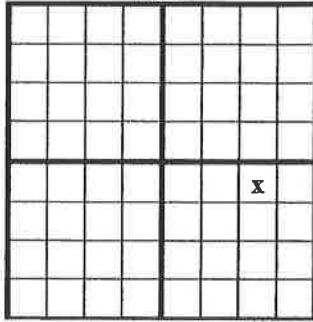


MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North

WELL ID NUMBER: 92226



«———— One Mile —————»
Each square is 10-acres

Quarters NW-NE-SE Section 17 Township 15N Range 19E1

Latitude 35.776835 Longitude -95.313743
Date collected(latitude and longitude), if different from date the well was drilled: 04/05/2005
Method latitude and longitude was collected: Mathematical conversion program

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Zapata Industries, Inc.
Address/City/State 4400 Don Cayo Dr. Muskogee OK
Finding Location
Well Name TMW-4

Phone (918) 683-4577
Zip 74403

Water Rights #:

TYPE OF WORK: Monitoring Well

USE OF WELL: Water Quality

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed
Number of wells or borings represented by this log 1
* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: Surface Pipe Diameter inches Surface Pipe From ft to ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATIONFilter Pack Material: **WELL SEAL INFORMATION**Type of Surface Seal n/aType of Annular Seal n/aFilter Pack Seal Material n/aSurface Seal Interval: From n/a ft to n/a ftAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Interval: From n/a ft to n/a ftTYPE OF COMPLETION: **HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
no lithological description obtained			

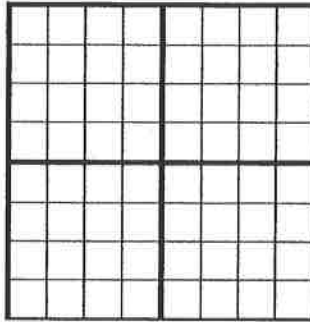
WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? n/aAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged 04/28/2004Total Depth of well being plugged 26 ft.Was the well contaminated or was it plugged as though it was contaminated? NoIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? YesWas the grout tremied? NoBackfilled with n/aBackfilled from ft. to ft.Grouted with Bentonite Granules/ChipsGrouted from 0 ft. to 26 ft.Grouted with CementGrouted from ft. to ft.Firm Name Mohawk Drilling, Inc.D/PC No. DPC-0563Operator Name BRANTLEY, ALLANOP No. OP-1236Date 02/09/2005Comments: n/a



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
 3800 North Classen Boulevard
 Oklahoma City, OK 73118
 Telephone (405) 530-8800

Legal Location
 North



«———— One Mile —————»
 Each square is 10-acres

WELL ID NUMBER: 41363

Quarters -SE-NW

Section 21

Township 15N

Range 19E1

Latitude 35.764066

Longitude -95.298197

Date collected(latitude and longitude), if different from date the well was drilled: 11/30/1998

Method latitude and longitude was collected: Interpolation from PLSS

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Okla Gas & Elec Co

Phone _____

Address/City/State Oklahoma City OK

Zip _____

Finding Location 4 miles east of muskogee okla

Well Name _____

Water Rights #: _____

TYPE OF WORK: Groundwater Well

USE OF WELL: Industrial

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 06/21/1937

Number of wells or borings represented by this log 1

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 8 inches to a depth of 48 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: Surface Pipe Diameter inches Surface Pipe From ft to ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATION

Filter Pack Material: ___

WELL SEAL INFORMATION

Type of Surface Seal n/a

Surface Seal Interval: From n/a ft to n/a ft

Type of Annular Seal n/a

Annular Seal Interval: From n/a ft to n/a ft

Filter Pack Seal Material n/a

Filter Pack Seal Interval: From n/a ft to n/a ft

TYPE OF COMPLETION: ___

HYDROLOGIC INFORMATION

Depth to water at time of drilling ___ ft

Estimated yield of well ___ gpm

First water zone 24 ft

LITHOLOGY DESCRIPTION

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
no lithological description obtained			

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTION

Has this well been disinfected after completion of work? n/a

Are there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/a

Distance of Well is n/a from possible source. Type of possible source: n/a

PLUGGING INFORMATION

Date Well or Boring Was Plugged n/a

Total Depth of well being plugged ___ ft.

Was the well contaminated or was it plugged as though it was contaminated? n/a

If the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/a

Was the grout tremied? n/a

Backfilled with n/a

Backfilled from ___ ft. to ___ ft.

Grouted with n/a

Grouted from ___ ft. to ___ ft.

Grouted with Cement

Grouted from ___ ft. to ___ ft.

Firm Name W O Moors

D/PC No. ___

Operator Name ___

OP No. ___

Date n/a

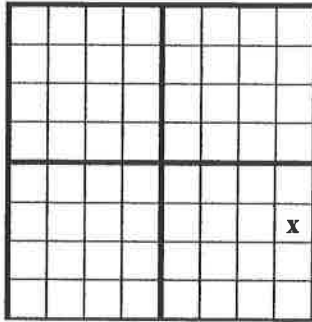
Comments: n/a



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
 3800 North Classen Boulevard
 Oklahoma City, OK 73118
 Telephone (405) 530-8800

Legal Location North



«———— One Mile —————»
 Each square is 10-acres

WELL ID NUMBER: 64767

Quarters SE-NE-SE Section 08 Township 15N Range 19E1

Latitude 35.788647 Longitude -95.305971
 Date collected(latitude and longitude), if different from date the well was drilled: 12/03/2001
 Method latitude and longitude was collected: Interpolation from PLSS

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Oklahoma Gas & Electric
 Address/City/State _____
 Finding Location _____
 Well Name _____

Phone _____
 Zip _____

Water Rights #: _____

TYPE OF WORK: Geotechnical Boring

USE OF WELL: Soil Evaluation

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 10/19/2001
 Number of wells or borings represented by this log 1
 * (Borings are within the same 10 acre-tract and with the same general depths and lithologies)
 Hole Diameter .6 inches to a depth of 43.6 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: __ Surface Pipe Diameter __ inches Surface Pipe From __ ft to __ ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATION

Filter Pack Material:

WELL SEAL INFORMATION

Type of Surface Seal n/a

Surface Seal Interval: From n/a ft to n/a ft

Type of Annular Seal n/a

Annular Seal Interval: From n/a ft to n/a ft

Filter Pack Seal Material n/a

Filter Pack Seal Interval: From n/a ft to n/a ft

TYPE OF COMPLETION:

HYDROLOGIC INFORMATION

Depth to water at time of drilling ft

Estimated yield of well gpm

First water zone ft

LITHOLOGY DESCRIPTION

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
no lithological description obtained			

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTION

Has this well been disinfected after completion of work? n/a

Are there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/a

Distance of Well is n/a from possible source. Type of possible source: n/a

PLUGGING INFORMATION

Date Well or Boring Was Plugged n/a

Total Depth of well being plugged ft.

Was the well contaminated or was it plugged as though it was contaminated? n/a

If the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/a

Was the grout tremied? n/a

Backfilled with n/a

Backfilled from ft. to ft.

Grouted with n/a

Grouted from ft. to ft.

Grouted with Cement

Grouted from ft. to ft.

Firm Name Terracon Consultants, Inc

D/PC No. DPC-0205

Operator Name

OP No.

Date n/a

Comments: n/a



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North

WELL ID NUMBER: 104464

Grid map showing a 10x10 square grid with an 'X' in the 3rd row, 2nd column.

«———— One Mile —————»
Each square is 10-acres

Quarters NE-NW-SW Section 20 Township 15N Range 19E

Latitude 35.7616333 Longitude -95.3198667
Date collected(latitude and longitude), if different from date the well was drilled:
07/27/2006
Method latitude and longitude was collected: GPS - uncorrected data

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Bill Piester
Address/City/State 3641 Eufaula Ave. Muskogee OK
Finding Location Country Club Rd.
Well Name

Phone (000) 682-3285
Zip 74403

Water Rights #:

TYPE OF WORK: Groundwater Well

USE OF WELL: Domestic

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 07/27/2006
Number of wells or borings represented by this log 1
* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)
Hole Diameter 9 inches to a depth of 20 ft.
Hole Diameter 6 inches to a depth of 225 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: PVC / Plastic Surface Pipe Diameter 6 inches Surface Pipe From 0 ft to 12 ft
1) Well Casing Material PVC Casing Diameter 6 inches Casing From 0 ft to 20 ft

SCREEN OR PERFORATION INFORMATION

FILTER PACK INFORMATION

Filter Pack Material:

WELL SEAL INFORMATION

Type of Surface Seal Cement Grout

Surface Seal Interval: From 0 ft to 10 ft

Type of Annular Seal n/a

Annular Seal Interval: From n/a ft to n/a ft

Filter Pack Seal Material n/a

Filter Pack Seal Interval: From n/a ft to n/a ft

TYPE OF COMPLETION: Above Ground

HYDROLOGIC INFORMATION

Depth to water at time of drilling 2 ft

Estimated yield of well 2 gpm

First water zone ft

LITHOLOGY DESCRIPTION

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
ob	0	17	N
lime	17	35	N
shale	35	189	N
lime	189	225	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTION

Has this well been disinfected after completion of work? Yes

Are there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/a

Distance of Well is n/a from possible source. Type of possible source: n/a

PLUGGING INFORMATION

Date Well or Boring Was Plugged n/a

Total Depth of well being plugged ft.

Was the well contaminated or was it plugged as though it was contaminated? n/a

If the well or boring was plugged as if it was contaminated, was the casing removed or perforated? n/a

Was the grout tremied? n/a

Backfilled with n/a

Backfilled from ft. to ft.

Grouted with n/a

Grouted from ft. to ft.

Grouted with Cement

Grouted from ft. to ft.

Firm Name Websters Drilling Company

D/PC No. DPC-0223

Operator Name FERGUSON, ROGER

OP No. OP-1257

Date 09/15/2006

Comments: n/a

FILTER PACK INFORMATIONFilter Pack Material: Sand 10-20 (coarse)Filter Pack Interval: From 18 ft to 30**WELL SEAL INFORMATION**Type of Surface Seal Cement GroutSurface Seal Interval: From 0 ft to 15 ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material Bentonite - Hole PlugFilter Pack Seal Interval: From 15 ft to 18 ftTYPE OF COMPLETION: **HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
Red Silty Clay	0	27	N
Tan Fine Sand Black Sand	27	30	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? YesAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged 12/13/2006Total Depth of well being plugged 24 ft.Was the well contaminated or was it plugged as though it was contaminated? YesIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? YesWas the grout tremied? YesBackfilled with Cement GroutBackfilled from 0 ft. to 24 ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from 0 ft. to 24 ft.Firm Name Associated Environmental Industries, Corp.D/PC No. DPC-0269Operator Name JARMAN, DANNYOP No. OP-0253Date 12/18/2006Comments: n/a



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
 3800 North Classen Boulevard
 Oklahoma City, OK 73118
 Telephone (405) 530-8800

Legal Location
 North

WELL ID NUMBER: 106107

«———— One Mile —————»
 Each square is 10-acres

Quarters NE-NE-SE Section 17 Township 15N Range 19E1

Latitude 35.7758167 Longitude -95.307
 Date collected (latitude and longitude), if different from date the well was drilled: 12/12/2006
 Method latitude and longitude was collected: Mathematical conversion program

County MuskogeeVariance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Muskogee City CountyPhone (405) 702-5121Address/City/State PO Box 1677 Oklahoma City OKZip 73101Finding Location North of Highway 62 on Highway 165 - 1/4 mile on East side of Highway 165Well Name MPA - 2WWater Rights #: TYPE OF WORK: Monitoring WellUSE OF WELL: Site Assessment

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 12/12/2006Number of wells or borings represented by this log 1

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 8.75 inches to a depth of 35 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: Surface Pipe Diameter inches Surface Pipe From ft to ft1) Well Casing Material PVC Casing Diameter 2 inches Casing From 0 ft to 25 ft

SCREEN OR PERFORATION INFORMATION

Type of Screen: PVC Type of Slots or Openings: Factory Slotted - 10 slot (0.010 inch) From 25 ft to 35 ft.

FILTER PACK INFORMATIONFilter Pack Material: Sand 10-20 (coarse)Filter Pack Interval: From 23 ft to 35**WELL SEAL INFORMATION**Type of Surface Seal n/aSurface Seal Interval: From n/a ft to n/a ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material Bentonite - Hole PlugFilter Pack Seal Interval: From 20 ft to 23 ftTYPE OF COMPLETION: **HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone 26 ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
Red & Gray Mottled Clay Moist Stiff	0	30	N
Tan Sand Fine Wet	30	35	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? YesAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged 12/13/2006Total Depth of well being plugged 24 ft.Was the well contaminated or was it plugged as though it was contaminated? YesIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? YesWas the grout tremied? YesBackfilled with Cement GroutBackfilled from 0 ft. to 24 ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from 0 ft. to 24 ft.Firm Name Associated Environmental Industries, Corp.D/PC No. DPC-0269Operator Name JARMAN, DANNYOP No. OP-0253Date 12/18/2006Comments: n/a



MULTI-PURPOSE WELL COMPLETION & PLUGGING REPORT

Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118
Telephone (405) 530-8800

Legal Location
North

WELL ID NUMBER: 106108

Grid table with 10 columns and 10 rows. An 'X' is marked in the 8th column and 7th row.

«----- One Mile -----»
Each square is 10-acres

Quarters NE-NE-SE Section 17 Township 15N Range 19E

Latitude 35.7763667 Longitude -95.30625
Date collected(latitude and longitude), if different from date the well was drilled: 12/12/2006
Method latitude and longitude was collected: Mathematical conversion program

County Muskogee

Variance Request No. (if applicable) n/a

WELL OWNER - NAME AND ADDRESS

Well Owner Muskogee City County

Phone (405) 702-5121

Address/City/State PO Box 1677 Oklahoma City OK

Zip 73101

Finding Location North of Highway 62 on Highway 165 - 1/4 mile on East side of Highway 165

Well Name MPA - 2N

Water Rights #: _____

TYPE OF WORK: Monitoring Well

USE OF WELL: Site Assessment

NEW WELL CONSTRUCTION DATA

Date Well or Boring Was Completed 12/12/2006

Number of wells or borings represented by this log 1

* (Borings are within the same 10 acre-tract and with the same general depths and lithologies)

Hole Diameter 8.75 inches to a depth of 24 ft.

CASING INFORMATION *Note: If surface casing is used please indicate that on the appropriate well casing information line.

Surface Pipe Material: _____ Surface Pipe Diameter _____ inches Surface Pipe From _____ ft to _____ ft

1) Well Casing Material PVC Casing Diameter 2 inches Casing From 0 ft to 14 ft

SCREEN OR PERFORATION INFORMATION

Type of Screen: PVC Type of Slots or Openings: Factory Slotted - 10 slot (0.010 inch) From 14 ft to 24 ft.

FILTER PACK INFORMATIONFilter Pack Material: Sand 10-20 (coarse)Filter Pack Interval: From 11 ft to 24**WELL SEAL INFORMATION**Type of Surface Seal n/aSurface Seal Interval: From n/a ft to n/a ftType of Annular Seal n/aAnnular Seal Interval: From n/a ft to n/a ftFilter Pack Seal Material Bentonite - Hole PlugFilter Pack Seal Interval: From 9 ft to 11 ftTYPE OF COMPLETION: **HYDROLOGIC INFORMATION**Depth to water at time of drilling ftEstimated yield of well gpmFirst water zone 19 ft**LITHOLOGY DESCRIPTION**

MATERIAL	ENCOUNTERED		SATURATED
	FROM (ft.)	TO (ft.)	
Red Silty Clay Moist	0	19	N
Tan Sand Fine Wet	19	24	N

WELL LOCATION TO POTENTIAL SOURCES OF POLLUTIONHas this well been disinfected after completion of work? YesAre there any potential sources of pollution or wastewater lagoons within 300 ft. of the well? n/aDistance of Well is n/a from possible source. Type of possible source: n/a**PLUGGING INFORMATION**Date Well or Boring Was Plugged 12/12/2006Total Depth of well being plugged 24 ft.Was the well contaminated or was it plugged as though it was contaminated? YesIf the well or boring was plugged as if it was contaminated, was the casing removed or perforated? NoWas the grout tremied? YesBackfilled with Cement GroutBackfilled from 0 ft. to 24 ft.Grouted with n/aGrouted from ft. to ft.Grouted with CementGrouted from 0 ft. to 24 ft.Firm Name Associated Environmental Industries, Corp.D/PC No. DPC-0269Operator Name JARMAN, DANNYOP No. OP-0253Date 12/18/2006Comments: n/a

Appendix H

Qualifications of Environmental Professionals

Paul Davis earned a Bachelor of Applied Science in Geological Engineering from the University of British Columbia in 1978, and a Master of Science in Hydrology from the University of Arizona in 1989. He is a licensed Professional Geologist (Indiana) and registered Professional Engineer with proficiency in Geological Engineering (Arizona).

Mr. Davis joined the DEQ in January 2004, working on Targeted Brownfields Assessments and Voluntary Cleanup projects. Since 1978, he has performed hydrogeological and environmental assessment work, including three RCRA Facility Investigations, RCRA groundwater monitoring for numerous sites, mine tailings site assessments, and mining/civil excavation dewatering assessments. From 1989 to 1999, he managed environmental activity for 26 shut-down or "orphan" industrial sites for a major petrochemical company.

Hal Cantwell holds a Bachelor Degree in Geography with emphasis in Physical Geography and ecological from the University of Oklahoma and a Masters Degree in Geography with emphasis in Biogeography and Remote Sensing from University of Oklahoma. Mr. Cantwell has 20 years experience working in the Superfund program including directing the investigation and remediation of National Priority List (NPL) sites. He has 18 years experience in performing site assessments and ten years experience in directing and supervising CERCLA Preliminary Assessments and Site Investigations with the Oklahoma Department of Environmental Quality Land Protection Site Assessment Unit. He also has six years experience performing and supervising Targeted Brownfield Assessments under the DEQ Brownfields Program.

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 fourteen years, working in the Superfund and Brownfields Programs. She has 14 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 Brownfields Memorandum of Agreement (MOA) with EPA, and the development of the Brownfield Cleanup Revolving Loan Fund Grant Proposal.