

**An Oklahoma DEQ Application for an Existing Inactive Surface
Impoundment for Solid Waste Management of Coal Combustion
Residuals at
Muskogee Generating Station**



FACILITY LOCATION:

5501 Three Forks Road
Ft. Gibson, OK 74434



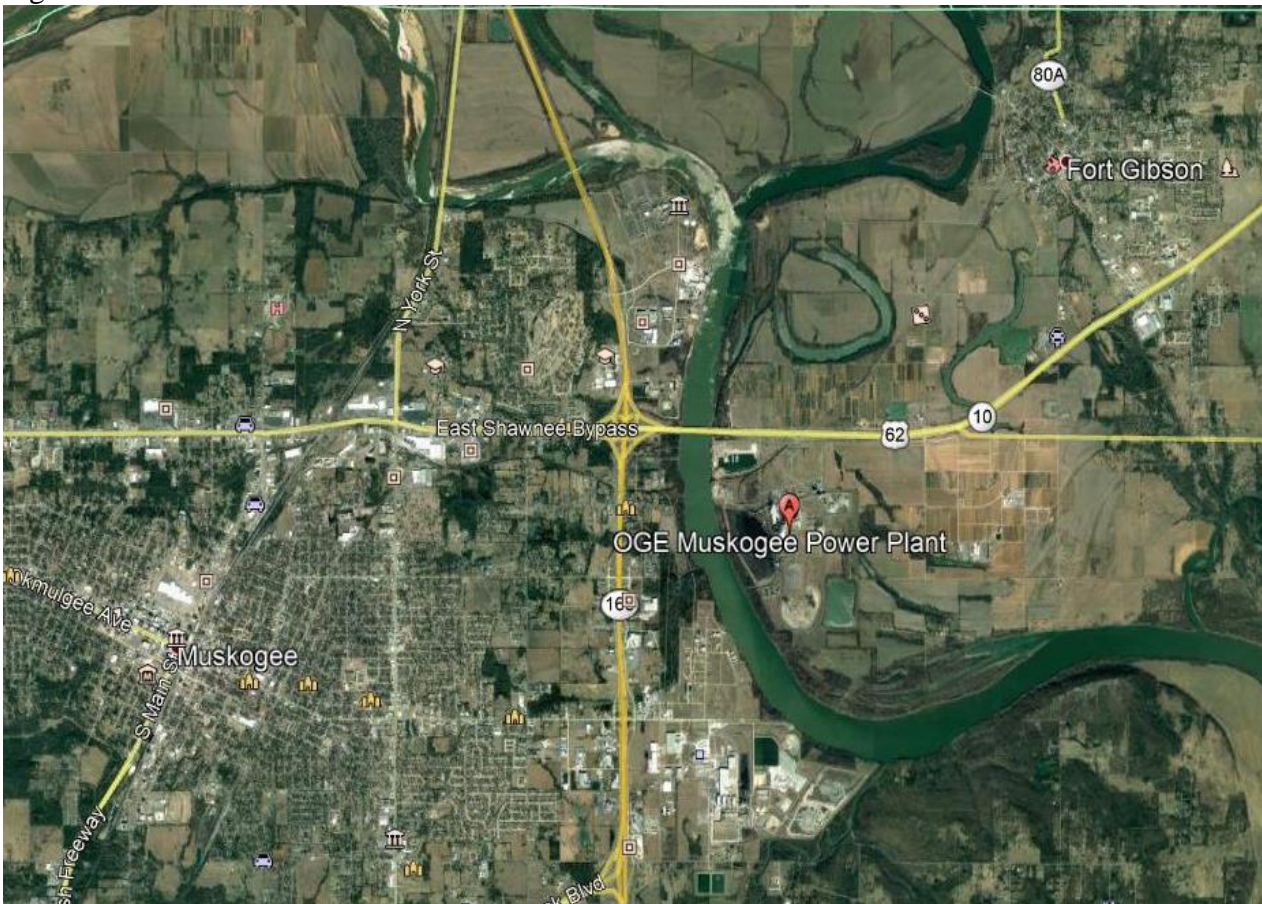
Revision 1
Date: May 17, 2018

A. Owner Information (OAC 252:517-3-6(a)(1))				
1. Name				
Oklahoma Gas and Electric Company				
2. Street or P.O. Box		3. City or Town	4. State	5. Zip Code
P.O. Box 321, M/C 610		Oklahoma City	OK	73101
6. Contact Person		7. Contact Number		
Tad Dow		(405) 553-3349		
B. Facility Information (OAC 252:517-3-6(a)(2))				
1. Facility Name				
Muskogee Generating Station				
2. Street or P.O. Box		3. City or Town	4. State	5. Zip Code
5501 Three Forks Rd.		Fort Gibson	OK	74434
6. County		7. Phone Number		
Muskogee		(918) 686-4388		
8. Legal Description (1/4, 1/4, 1/4, Section, Township, Range)				
Sections 21, 22, 27, 28, T15N, R19E				
C. CCR Unit Information (OAC 252:517-3-6(a)(4-9))				
1. Legal Description (1/4, 1/4, 1/4, Section, Township, Range)			2. Proposed Permit Boundary	
E 1/2 Section 22, T15N, R19E			See Figure 1 below	
3. Proposed Disposal Area		4. Soil Borrow Area		
See Figure 1 below		N/A		
5. Latitude/Longitude of Permit Boundary				
NW	Latitude	35° 45' 49"	Longitude	-95° 16' 57"
NE	Latitude	35° 45' 49"	Longitude	-95° 16' 46"
SE	Latitude	35° 45' 41"	Longitude	-95° 16' 46"
SW	Latitude	35° 45' 41"	Longitude	-95° 16' 57"
Entrance	Latitude	35° 46' 7"	Longitude	-95° 16' 59"
6. Location of Site				
The site is situated NE of Muskogee and SW of Fort Gibson as shown in Figure 2.				
7. Description of Processing, Storage, and Disposal Operations and Units				
The OG&E Muskogee (MK) facility operates three coal-fired burning units that generate dry fly ash and wet bottom ash coal combustion residuals (CCR). The CCR dry fly ash is managed in aboveground silos and beneficially reused as commercial products (e.g., concrete, bagged products, roadbed stabilization, etc.). The CCR bottom ash is sluiced into separate aboveground dewatering hoppers, loaded into trucks, and removed from the facility where it is reutilized for beneficial use within the aggregate market, or disposed in a permitted landfill. The 15-acre existing inactive surface impoundment previously received CCR material during dewatering bin maintenance or malfunction activities, and was also used when flushing discharge lines. The existing inactive CCR impoundment ceased operations on October 14, 2015. The inactive CCR impoundment is now only receiving direct rainfall within the impounded area. The rainfall accumulates towards the southwest corner of the impoundment and drains into an existing concrete sump which is then pumped and recycled into the ash recycle system for beneficial use. It should be noted that the MK inactive CCR surface impoundment meets the alternative timeframes established under OAC 252:517-15-5(b)(1).				

Figure 1



Figure 2



8. Type of Road Construction and Materials
All roads within the facility are constructed with impervious surface or gravel to ensure that they are passable during inclement weather by normal vehicular traffic.
9. Anticipated Heavy Equipment
N/A
10. Maps
Maps as required by OAC 252:517-3-31 thru 46 are in the attachments to this application.
11. Data, Plans, and Specifications
<p>a. The information contained within this section provides the appropriate and applicable requirements for an existing inactive CCR surface impoundment that is scheduled for clean-closure in CY2018, in accordance with OAC 252:517-15-7. Additionally, it should be noted that the technical requirements for Inactive CCR Surface Impoundments that meet the alternative timeframes established under OAC 252:517-15-5(b)(1), have been prepared, submitted, and implemented in accordance with the schedule identified within OAC 252:517-15-5.</p> <p>b. Location Restrictions – OAC 252:517-15-5(b)(2) requires the owner/operator to demonstrate compliance with location standards for inactive impoundments by April 16, 2020. Since the MK Inactive CCR impoundment will initiate clean closure in CY2018, the permit application location restrictions in OAC 252:517-3-6(a)(11)(A) and 252:517-5 are not applicable.</p> <p>c. Operational Requirements – OAC 252:517-15-5(b)(4) requires the owner/operator to demonstrate compliance with operating criteria. OG&E has met the criteria and timeframes for these operating criteria by submitting the following: CCR Fugitive Dust Control Plan, Inflow Design Flood Control System, routine periodic inspections, and the annual inspection by a professional engineer.</p> <p>d. Stormwater Management Requirements – The MK inactive CCR impoundment initial inflow design flood control assessment has been prepared in accordance with 40 CFR 257.82(c) and OAC 252:517-13-3(a). The CCR Rule inflow design flood control requirement is based on the hazard potential classification of the CCR surface impoundment. The inflow design flood for a low hazard potential classification is determined using a 100-year flood event. The 100-year flood elevation listed in the FEMA Flood Insurance Rate Map (FIRM 40101C0120F, Attachment 2) for the MK inactive CCR impoundment location is 515 feet msl. The embankment if the inactive impoundment is designed to have a crest elevation of 516 feet msl. The concrete outlet structure with a slide gate is located on the southwest corner of the impoundment and is used for recycling water into the bottom ash recycling system. Since the CCR impoundment is only receiving direct rainfall within the impounded area, there are no off-site rainfall runoff sources that contribute to the rainfall collected within the impoundment. The rainfall runoff collected within the impoundment is pumped into the ash recycle system for beneficial use and the water level is being kept as low as possible until closure can be completed. The inactive CCR impoundment is flood protected up to 516 feet msl, which is 1-foot higher than the 100 year flood elevation.</p> <p>e. Closure Plan – A closure plan was submitted to ODEQ on March 13, 2018.</p> <p>f. Aesthetic Enhancement - OAC 252:517-3-7 requires a plan to enhance the visual harmony of a CCR unit. Since the MK inactive CCR impoundment will initiate clean closure in CY2018, these aesthetic enhancement requirements are not applicable.</p>
12. Financial Assurance
OG&E has prepared and has submitted a closure plan for the MK inactive CCR surface impoundment. Additionally, OG&E plans to close the in-active CCR Surface Impoundment in accordance with clean closure techniques. OG&E will subsequently prepare and submit a separate addendum to meet the financial assurance requirements of OAC 252:517-17 prior to issuance of a draft permit.



D. Disclosure Statement (OAC 252:517-3-3(g))

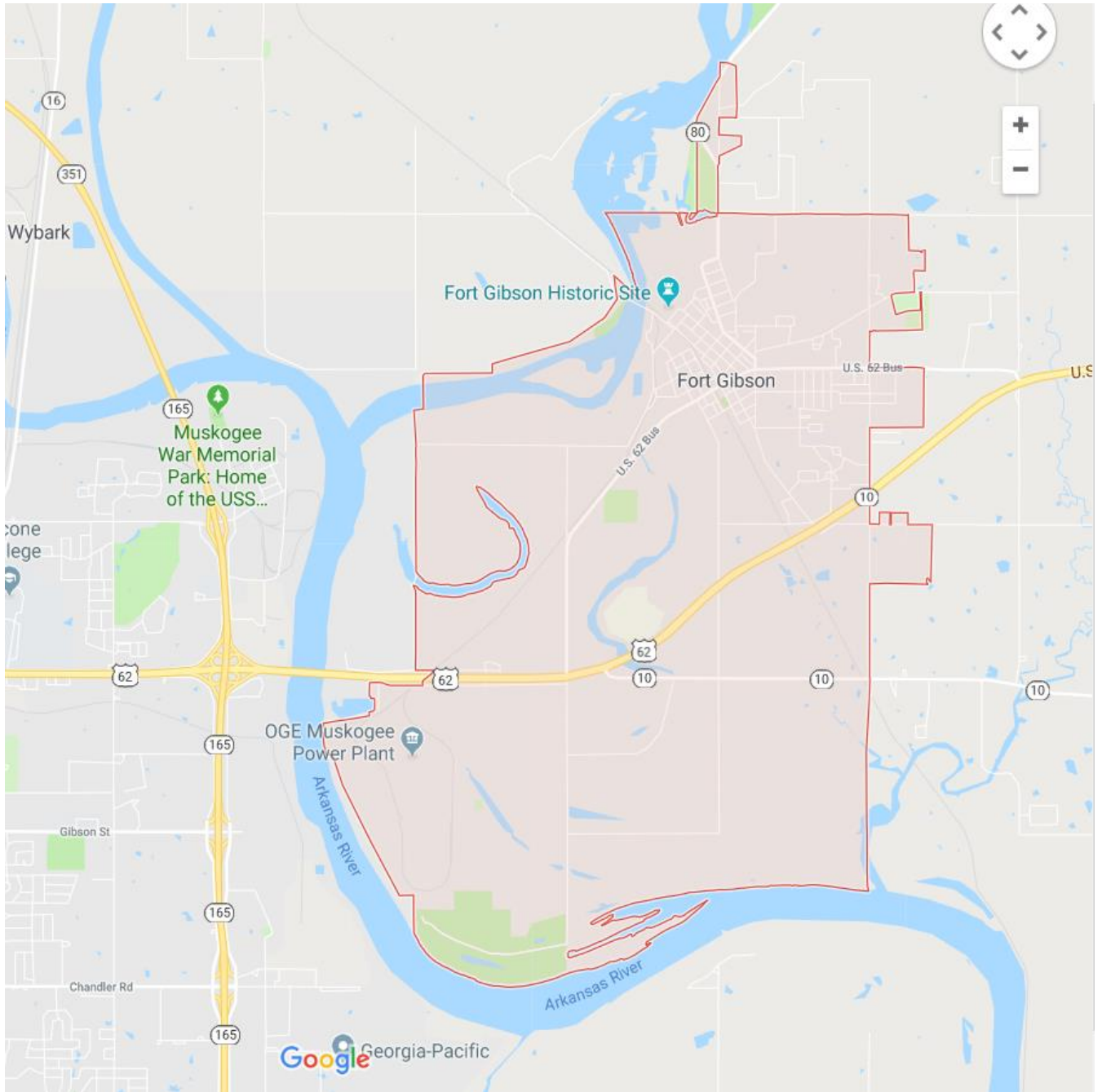
In accordance with 27A O.S. §§ 2-10-302, OG&E, as a publicly held company required to file periodic reports under the Securities and Exchange Act of 1934, is provided links to the most recent annual and quarterly reports:

Annual Report – <http://phx.corporate-ir.net/phoenix.zhtml?c=106374&p=IROL-secToc&TOC=aHR0cDovL2FwaS50ZW5rd2l6YXJkLmNvbS9vdXRsaW5lLnhtbD9yZXBvPXRlbmsmaXBhZ2U9MTIwNzQ4MTgmc3Vic2lkPTU3&ListAll=1&sXBRL=1>

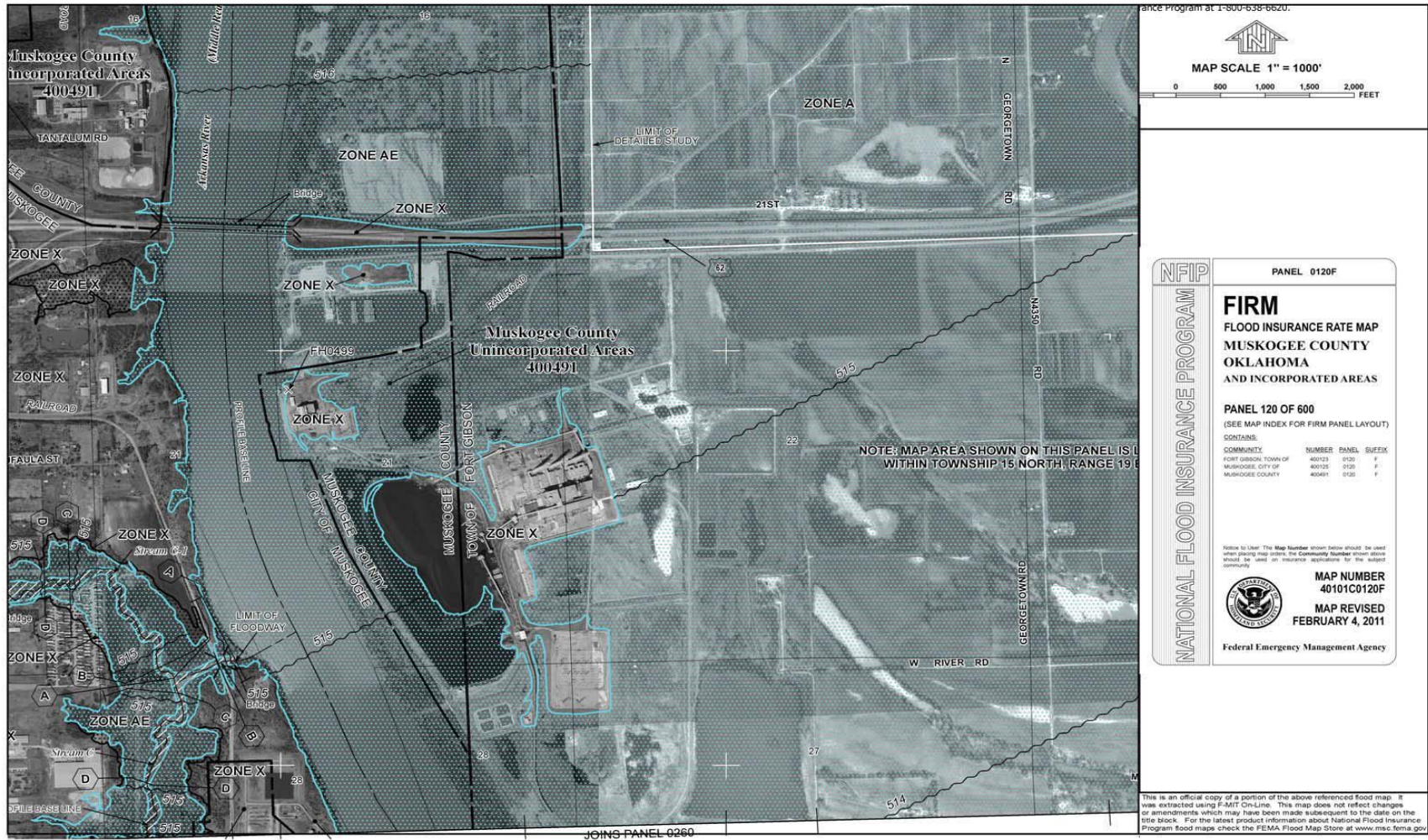
Quarterly Report - <http://phx.corporate-ir.net/phoenix.zhtml?c=106374&p=IROL-secToc&TOC=aHR0cDovL2FwaS50ZW5rd2l6YXJkLmNvbS9vdXRsaW5lLnhtbD9yZXBvPXRlbmsmaXBhZ2U9MTIyMjYyNDUmc3Vic2lkPTU3&ListAll=1&sXBRL=1>

E. Certification

**Attachment 1
General Location Map**



**Attachment 2
Flood Plain Map**



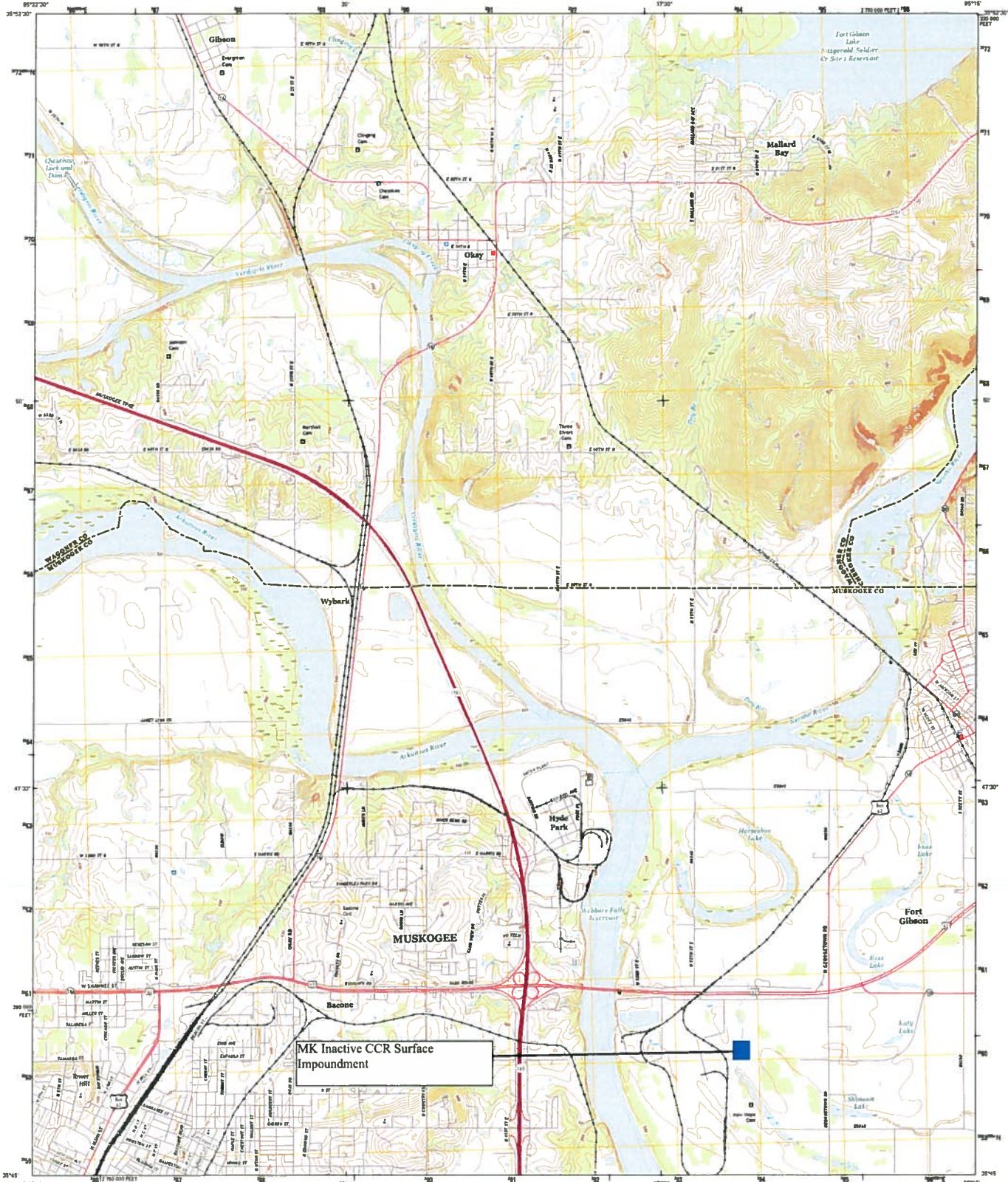
Attachment 3
Quadrangle Topographic Map



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



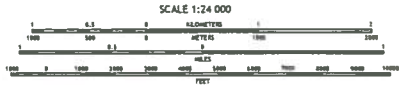
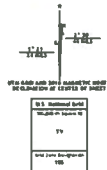
NORTHEAST MUSKOGEE QUADRANGLE
OKLAHOMA
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Project datum and
1000-meter grid. Universal Transverse Mercator, Zone 15
18 500 North. Oklahoma Coordinate System of 1983 (OCS83)
datum.

This map is not a legal document. Boundaries may be
inaccurate for site map needs. Please check with appropriate
interagency may not be shown. Obtain permission before
using private lands.

Hydrology: 1981
Roads: U.S. Census Bureau, 2014
Topography: USGS, 2014
Contour: USGS, 2014
Cadastral: USGS, 2014
Boundaries: Multiple sources, see metadata file 1977-2015
Boundaries: 1975 National Wetlands Inventory 1977-2014



SCALE 1:24 000
CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1983
This map was produced to conform with the
National Geospatial Program US Topographic Standard, 2011.
A metadata file associated with this product is available at www.usgs.gov



ROAD CLASSIFICATION

Expressway	Least Connector
Secondary Hwy	Least Road
Loop	Spoke Road
Unimproved Road	US Route

Legend:

- 1 Impinger Trail
- 2 Impinger Run
- 3 Hubber's
- 4 Fort Gibson Reservoir
- 5 Fort Gibson Dam
- 6 Northwest Muskogee
- 7 Southwest Muskogee
- 8 Spring

NORTHEAST MUSKOGEE, OK
2016

Attachment 4
Existing Contour Map/Site Map

Attachment 5
Surface Geologic Map

