

West Memphis I-40 Megaproject

CERTIFIED BY
ENERGY
ARKANSAS



CITY OF
**WEST
MEMPHIS**
ARKANSAS



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General Information

Site Name: West Memphis I-40 Megasite

Site Address: I-40 N. Service Road, West Memphis, AR 72301
Between Kuhn Road and Highway 147

Owner Contact Name: Freddie N. Bollinger, Etal
Kyzar Partnership LP
Nadeau Partnership LP
Woodland LLC
Scott and Deborah Ferguson
Bollinger Brothers Inc.
Hardin Partnership LP

Economic Development Organization Contact Information: Phillip Sorrell
205 S. Redding
West Memphis, AR 72301
Phone: (870)732-7507 Fax: (870)732-7504
Email: psorrell@citywm.com

Site Size: 1,819.13

Site Control Document: Parcels are under option by the City of West Memphis. With most expiring in Aug/Sept 2020.

Aerial Site Location Map See attachment G-1 for detail.



Site Characteristics

- Acreage:** 1,819
- Dimensions:** Approximately 11,000' x 7,650' – The site dimensions are not uniform.
- Previous Use:** Primarily agricultural/crop cultivation. There are two personal dwellings on the boundaries of the site.
- Fire Rating:** Class 1
- Distance to Fire Station:** 3.4 miles – Station 2
713 West Barton Street
West Memphis, AR 72301
- Distance to Nearest Interstate:** I-40 < 1 mile
- Distance to Nearest 4-lane Hwy:** Highway 118 < 3 miles
- Access Points to Hwy/Interstate:** I-40 < 1 mile
Highway 118 < 3 miles
- Road Frontage, Type and Weight Capacities:** The site has road frontage on the south, east and west boundaries. Bolling Road and Highway 147 act as the sites southern and western borders, respectively. Both are built to highway standards and maintained by the Arkansas Department of Transportation (ArDOT) with a maximum weight limit of 80,000 lbs. Kuhn Road is the eastern boundary of the site. It is a gravel road and maintained by Crittenden County.
- Distance to Nearest Rail:** <3 miles from Union Pacific main line and intermodal facility
- Distance to Nearest Commercial Airport:** <25 miles – Memphis International Airport
- Distance to Nearest Port Facility:** <8 miles – West Memphis Port



Distance from Retail or Central Business District: <5 miles – West Memphis, AR
<15 miles – Memphis, TN

Site Type: Stand alone

Site Survey: Not available



Cost Estimates and Timing

Cost per Acre: \$20,000/acre

Special Timing Considerations: Special timing and consideration should be given to existing structures, small residential dump site, cultural resource survey, wetlands, and floodplain.

See details in the attachment titled “Special Timing Considerations,” located behind tab C-1.

Clearing Cost: 12.3 acres of wooded area and 22,000 L.F. of wooded ditches will need to be cleared. The estimated cost is \$146,000.

See details in the attachment titled “Clearing Cost Estimate,” located behind tab C-1.

Grading Cost: The affected area will include approximately 1,000 acres. The scope of work included in the grading plan will include site detention, excavation, grading and ditch rerouting. The estimated cost is \$1,480,000.

See details in the attachment labeled “Grading and Stormwater Detention Cost Estimate,” located behind tab C-1.

Cut/Fill Cost: Cut/Fill quantities are based recommendations from the geotechnical subsurface exploration report which recommended removing and replacing expansive materials as follows:

- 4’ below foundation bearing level
- 3’ below floor slab subgrade
- 2’ below pavement subgrade

Assumptions

Building area – 2,000,000 sq/ft

Pavement area – 5,000,000 sq/ft

Required

Excavated material – 167,000 yd³

Fill material – 590,000 yd³

See details in the attachment labeled “Cut/Fill Cost Estimate,” located behind tab C-1.



Utility Extension or Upgrade Costs:

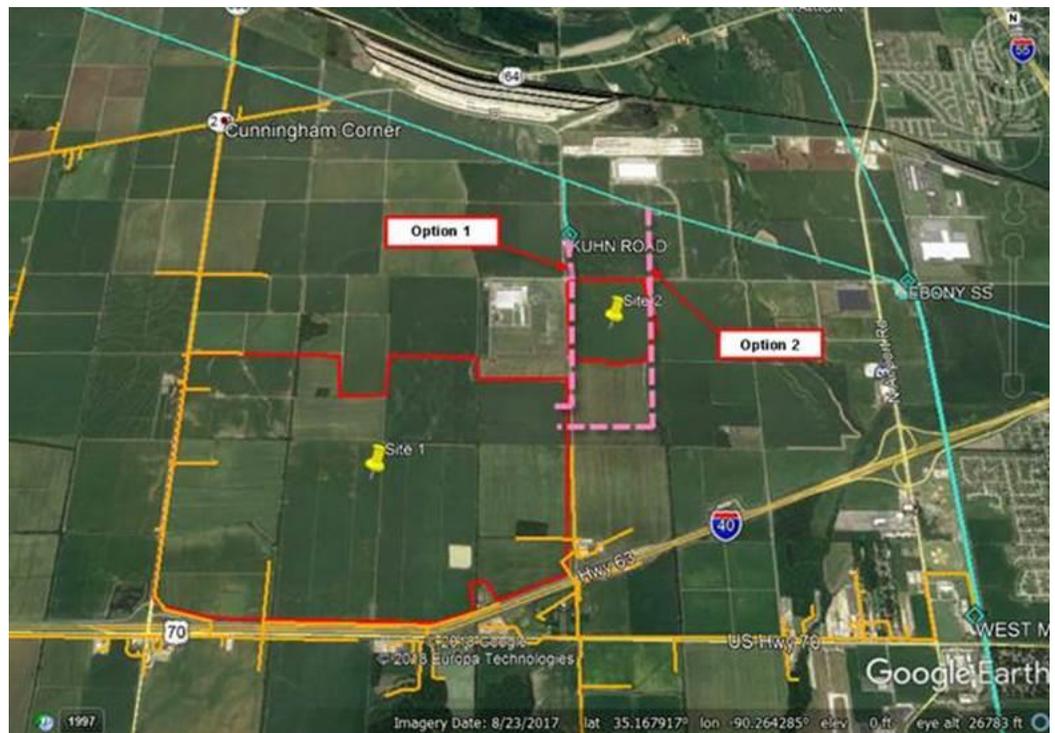
Electric – There are two options to provide service to the West Memphis I-40 Megawatt site. The solution and associated costs will be determined based on customer’s load and power factor. Time to build out the necessary infrastructure is estimated between 8 and 18 months depending on solution requirements.

Option 1

- Utilize the existing Kuhn Road Substation and use the spare breaker at the substation and extend approximately 1 mile of 13.8 kV distribution line to the site up to 15MW.

Option 2

- Cut-into the existing Ebony SS – Kuhn Rd. 161 kV transmission line and build approximately 2 miles of “in and out” transmission line and construct a new substation at the site.



Gas – Minimal cost – 180 days

Service extension provided by CenterPoint which currently terminates at the Hino facility just northeast of the site. Hino is served with a 6” high pressure steel line, operating at a minimum pressure 100 PSI with significant excess capacity available.



Sewer

A service extension and pump station will be required. System capacity available to the site of 2MGD. The cost to extend sewer is estimated at \$2,125,000 with a timeline of 12 to 15 months. Provided by West Memphis Utility Commission.

Water

A service extension of 12" water line required with system capacity available to the site of 2MGD. The cost to extend water is estimated at \$800,000 with a timeline of 12 to 15 months. Provided by West Memphis Utility Commission.

Telecom/Fiber – Service by AT&T at the site – no upgrades necessary

Rail

A wye connection and extension of 21,000 L.F. required. The cost to extend the rail is estimated at \$9,950,000 with a timeline of 15 to 18 months. Construction funding to be determined pursuant to the project.

See details located behind tab C-1.



Crittenden County, Arkansas - I-40 Megasite
Special Timing Considerations

The following factors were identified during the Environmental Screening as items to be addressed:

1. Existing Structures – There are two farm tenant houses on the boundary of the site. These structures can be removed quickly upon acquisition of the property.
2. Small Residential Dump Site - The site was discovered at the confluence of Ditch 11 and Drain 4. The dump site area, approximately 30' x 40', contains glass bottles, tin cans, plastic containers and old farm equipment. No drums or chemical/fuel containers were observed. Plans are underway to clean up the site within the next 6 months.
3. Cultural Resource Survey – Based on the Screening Level Cultural Resource Survey and site walk over, no historic properties, historic districts, churches or cemeteries are located on the 1,800-acre site. In addition, no known archeological sites are present on the property. Following the initial coordination request, the Arkansas Historical Preservation Program (AHPP) did recommend that a Cultural Resource Survey be conducted over the areas proposed for disturbance prior to development. Timing to complete the survey is less than 90 days.
4. Wetlands – Jurisdictional waters (wetlands and streams) were found to be present on the site. One wooded area of approximately 7 acres, located on the southeast corner of the site, was determined to be wetland. Given the remote location, excluding the 7 acres from site development is recommended, thus there would be no need for permitting or mitigation.

Six ditches on site were determined to be jurisdictional. None of these ditches are navigable waters of the United States; therefore, clearing and dredging of these ditches is permissible without a 404 or other special permit. Should any ditch relocation be required during development, this work would be done under nationwide 404 permit and not require a specific individual permit. Time for approval of the nationwide permit is less than 90 days.

5. Floodplain – according to the FEMA flood insurance rate maps, the entire site lies in Zone x (area of minimal flood hazard). Development would not require a CLOMA (conditional letter of map amendment). A floodplain development permit would not be required.

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Crittenden County, Arkansas - I-40 Megasite
Clearing Cost Estimate

Ditch Clearing:	
22,000 L.F of wooded ditches \$500/station	\$110,000
Clear Wooded Areas (12.3 acres):	
Northwest Area – 2.3 acres	
Southeast Area – 10 acres	
(12.3 acres @ \$3,000/acre)	\$36,900
Total Clearing Cost	<u>\$146,900</u>

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Crittenden County, Arkansas - I-40 Megaproject
Grading and Stormwater Detention Cost Estimate

Affected Area: 5,880' x 7,400' = 1,000 acres
Existing Site Slope – 0-1% (drain north to south)

Scope of Work:

1. Re-routing existing drainage ditches
2. Site grading
3. Stormwater detention basin

Development cost based on the following assumptions:

1.	Building area	2,000,000 sq/ft
2.	Pavement/parking/roads	5,000,000 sq/ft
3.	Detention area required (average depth 3')	2,000,000 sq/ft
4.	Ditch rerouting	8,000 L.F.
5.	Excavated material from detention area will be used for grading and fill material across the site	

Cost estimate:

1.	Detention Excavation and Grading (220,000 yd ³ @ \$6/y ³)	\$1,320,000
2.	Ditch Rerouting (8,000 L.F. @ \$20/L.F)	\$160,000
	Total	<u>\$1,480,000</u>

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Crittenden County, Arkansas - I-40 Megasite
Cut/Fill Cost Estimate

Cut/Fill quantities are based on recommendation from geotechnical subsurface exploration report which recommended removing and replacing expansive materials as follows:

- 4' below foundation bearing level
- 3' below floor slab subgrade
- 2' below pavement subgrade

The following base assumptions were made to develop cut/fill quantities:

Building area	2,000,000 sq/ft
Pavement/parking/roads	5,000,000 sq/ft
Finished floor elevation	212.5' MSL

Excavation cost:

Building area(s)	\$444,000
(2,000,000 sq/ft x 1' = 2,000,000 ft ³ = 74,000 yd ³ @ \$6 yd ³)	
Pavement area(s)	\$558,000
(5,000,000 sq/ft x 0.5' = 2,500,000 ft ³ = 93,000 yd ³ @ \$6 yd ³)	
Total	\$1,002,000

Fill Cost:

Building area(s)	\$2,640,000
2,000,000 sq/ft x 3' = 6,000,000 ft ³ = 220,000 yd ³ @ \$12 yd ³)	
Pavement area(s)	\$4,440,000
5,000,000 sq/ft x 2' = 10,000,000 ft ³ = 370,000 yd ³ @ \$12 yd ³)	
Total	\$7,080,000
Total All	\$8,082,000

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August 7, 2018

RE: West Memphis Entergy Select Site
CenterPoint Natural Gas Service

To Whom it May Concern:

CenterPoint has a 6-inch high pressure steel line running along Hwy 70 south of the site and another 6-inch high pressure steel pipe terminating at HINO near the NE corner of the site. The cost to extend the "Hino" line to the site edge should be minimal and the time frame is normally 180 days if there aren't any issues.

A handwritten signature in black ink, appearing to read "Chauncey Taylor", with a long, sweeping underline.

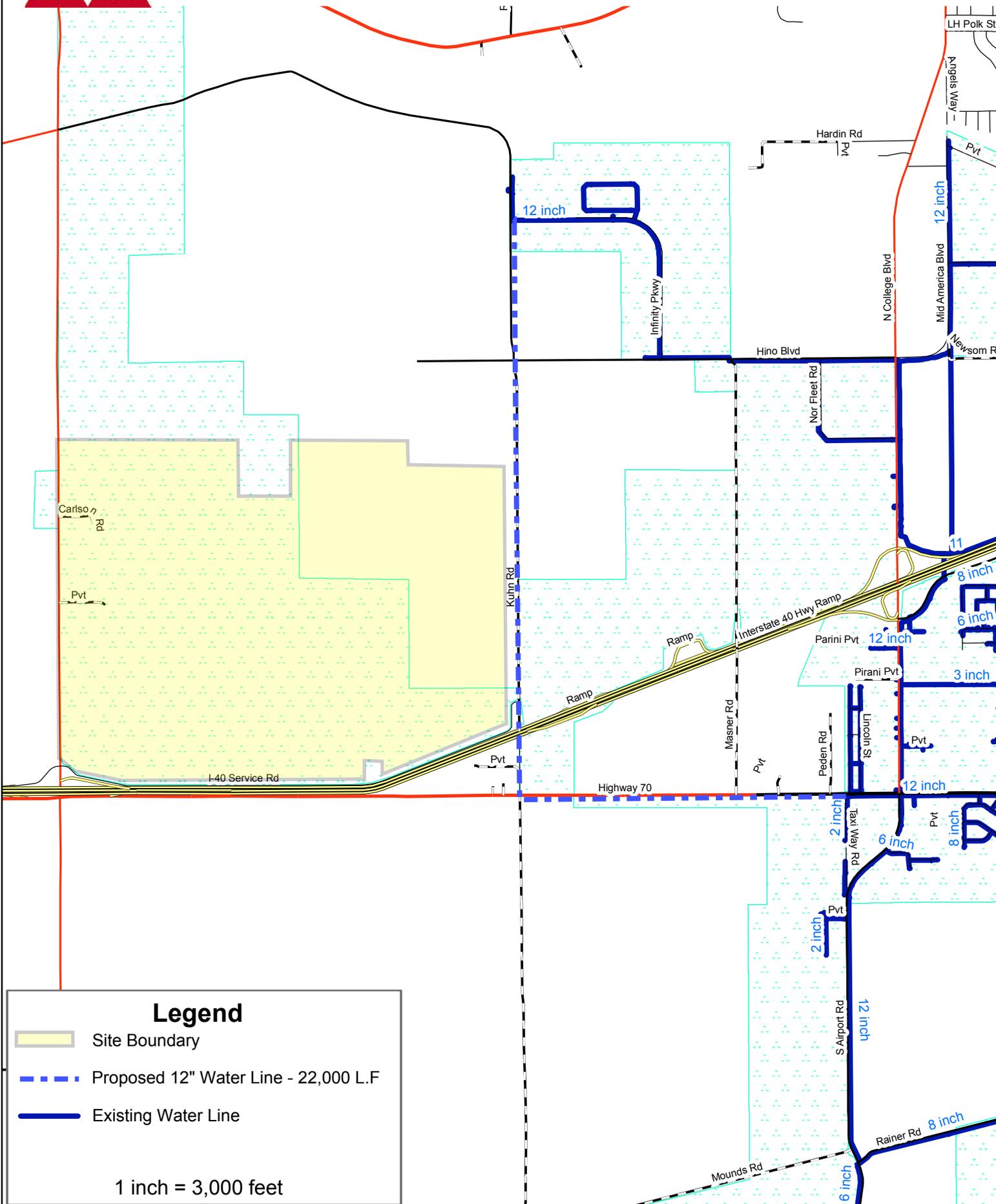
Chauncey Taylor
Key Accounts Manager
CenterPoint Energy
401 West Capitol, Suite 600
Little Rock, Arkansas 72201
Ofc 501-377-4557 fax 501-377-4630
Cell 501-772-2217

Crittenden County, Arkansas - I-40 Megasite
Water Utility Extension Cost Estimate

12" water line (22,000 L.F. @ \$27/L.F.)	\$594,000
12" gate valves (10 @ \$1,500/each)	\$15,000
Fire Hydrant (5 @ \$3,000/each)	\$15,000
12" road bores (540 L.F. @ \$120/L.F.)	\$64,800
Contingency (5%)	\$34,400
Subtotal	<hr/> \$723,200
Engineering	<hr/> \$76,800
Total	<hr/> \$800,000

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Crittenden County, AR - I-40 Megosite Proposed Water Solution



Legend

- Site Boundary
- Proposed 12" Water Line - 22,000 L.F.
- Existing Water Line

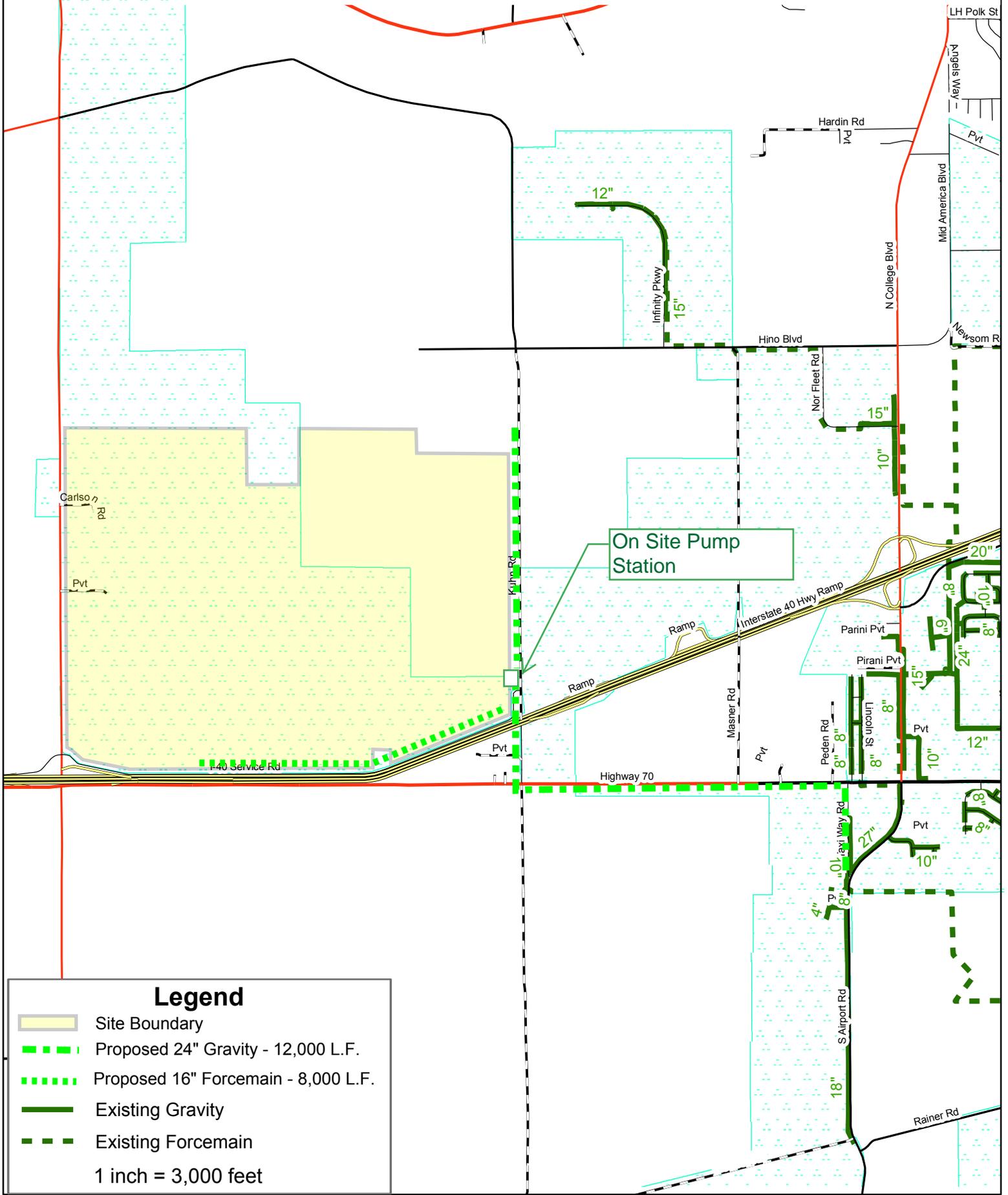
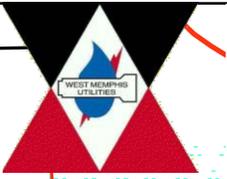
1 inch = 3,000 feet

Crittenden County, Arkansas - I-40 Megasite
Wastewater Utility Cost Estimate

24" gravity sewer (8,000 L.F. @ \$100/L.F.)	\$800,000
16" forcemain (12,000 L.F. @ \$50/L.F.)	\$600,000
Manholes (25 @ \$3,000 each)	\$75,000
16" road bores (400 L.F. @ \$150/L.F.)	\$60,000
Pump station (1 @ \$300,000 each)	\$300,000
Contingency (5%)	\$90,000
Subtotal	<u>\$1,925,000</u>
Engineering (10%)	<u>\$200,000</u>
Total	<u><u>\$2,125,000</u></u>

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Crittenden County, AR - I-40 Megaside Proposed Sewer Solution



Legend

- Site Boundary
 - Proposed 24" Gravity - 12,000 L.F.
 - Proposed 16" Forcemain - 8,000 L.F.
 - Existing Gravity
 - Existing Forcemain
- 1 inch = 3,000 feet

Crittenden County, Arkansas - I-40 Megasite
Rail Construction Cost Estimates

Land Acquisition (25 acres @ \$20,000/acre)	\$500,000
Engineering	\$800,000
Roadway Crossing	\$300,000
Wye Connection	\$1,000,000
Rail Construction (21,000 L.F. @ \$350/L.F.)	\$7,350,000
Total Construction Cost	<u>\$9,950,000</u>

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Environmental

Wetlands Screening: A National Wetlands Inventory map (NWI) was downloaded from the US Fish and Wildlife Service NWI website. Four wetlands areas were preliminarily identified by the NWI map. The entire site was then walked to determine if wetlands were present, particularly along drainage pathways. Following the inspection of drainages, the two wooded areas were inspected for wetland characteristics and forms completed. A third area designated as wetland on the NWI was a large area formerly wooded and designated as a Palustrine Forested (PFO) on the southwest portion of the property. This area is currently graded and drained for growing rice and includes one irrigation pond. A fourth area designated as a Palustrine Scrub-Shrub (PSS) on the southeast portion of the property was a well-drained field north of a residence. Vegetation on the site has been impacted by agricultural use on a regular basis such that primarily annual herbaceous plants are present. The dominant plants included henbit and wild mustard in the non-wet areas.

See attachment E-1 for detail.

Floodplain Delineation: According to the FEMA flood insurance rate maps, the entire site lies in Zone X (area of minimal flood hazard). The 100-year flood zone (ZONE A) is located south of I-40, Figure 2 at an elevation range of 209 to 210. The elevation range at the property is from 210 to 219 msl. The entire property is flat and is in agricultural use with the exception of two small wooded areas, two irrigation ponds and two residences with small yards. All drainage on site leads south to Ditch 12 (Fifteen Mile Bayou) located on the south side of I-40. Based on the information provided for the project site, development would not require a CLOMA (conditional letter of map amendment). A Floodplain Permit application would not be required.

See attachment E-2 for detailed maps.

Historical Survey: AECOM conducted a screening-level assessment for the proposed 1,800-acre I-40 Mega Site (Site), located in Crittenden County, Arkansas. The report includes a review of available web-based cultural resources data and soils, and the results of coordination with the Arkansas Historic Preservation Program (AHPP).



Based on a desktop review of the National Historic Register of Properties (NRHP) and the Arkansas Register of Historic Properties (ARHP) within a 1-mile buffer (Study Area) around the Site, no properties listed in the NRHP are present. Investigations of electronic AHPP site files revealed that two historic archaeological sites (3CT427 and 3CT428) are within the 1-mile Study Area; neither is located within the boundaries of the Site. The desktop review revealed three places of worship (e.g., churches) within the Study Area. Of these, only one (Reynold Grove Church) was identified within the boundaries of the Site. The Reynold Grove Church structure is no longer standing. The New Lehi Church is outside of but situated immediately adjacent to the Site on the west side Highway 147. Given its historic age (>50 years), a review by an architectural historian may be necessary to assess the eligibility of this structure for listing in the NRHP, if impacts are anticipated. The Jackson Chapel is within the Study Area but is situated approximately 0.65 miles north of the Site. Review of topographic maps and aerial photographs indicate that this structure is no longer standing.

No recreational resources were identified in the Study Area. Examination of historic topographic maps and aerial photographs indicates that numerous standing structures once stood inside the boundaries of the Site, particularly in the vicinity of the communities of Lehi, Reynold Grove near U.S. 70, and along Garant Bayou, but many of these structures have since been leveled or otherwise removed. A review of the project area soils indicates that a low percentage of the Site exhibit high archeological potential.

Following an initial coordination request, the AHPP recommended that a cultural resources survey should be conducted for the entire area of potential effect (APE). In addition, the AHPP recommended that consultation should be undertaken with several Tribes that have expressed an interest in the area (AHPP Tracking Number 101026). In the event a proposed project includes a Federal nexus i.e. federal funding or a federal permit such as a Section 404 permit, additional cultural resources survey would be required. Based upon the screening level cultural resources survey, the assessment of the geomorphology and soils within the project area, and correspondence with the AHPP, a cultural resources survey of areas proposed for disturbance within the I-40 Mega Site is recommended prior to any developments of the Site.



Based on the screening level cultural resources survey and site walk-over, no historic properties, historic districts, churches or cemeteries are located on the 1,800-acre project site. In addition, no known archaeological sites are present on the property and only two archaeological sites are located within one mile of the site, both to the south along Fifteen Mile Bayou (Ditch 12).

See attachment E-3 for the letter from the AHPP and the AECOM full report.

Endangered Species Survey: Endangered species were reviewed by accessing the United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) database online <https://ecos.fws.gov/ipac/location/index>. The site was outlined on the website and a list of endangered species and migratory birds was generated for the project area. A total of six endangered species and 13 migratory birds were listed in the database as potentially present in the project area. Endangered species were reviewed for the project site. In addition, the USFWS and the Arkansas Natural Heritage database was contacted for a review of their most current data base.

The database indicated that six protected species are known to occur in the area. In addition, bald eagle (*Haliaeetus leucocephalus*) are known in the area. During the site inspection, none of these species or their habitat were observed at or near the project site. The proposed development of the site is not likely to negatively impact migratory birds.

See attachment E-4 for detail.

Environmental Phase I (and Phase II if required): AECOM conducted a Phase I Environmental Site Assessment (ESA) of the 1,800 acre I-40 Mega site in April 2018.

Based on the scope of the assessment, no controlled recognized environmental conditions (CRECs), or historical recognized environmental conditions (HRECs) were identified for the subject property. The assessment revealed the following three RECs in connection with this site.

1. Based on the approximate age of construction of the houses located on the property (pre-1978) asbestos



containing materials, lead paint or other contaminants may be present and the structures are likely to have buried septic tanks. The location and condition of these tanks is unknown.

2. Fuel tanks and pumps have been in use on the property for many years. A total of six were observed during the time of the site visit. Those inspected closely did not appear to contain fuel and were not in use. The observed above ground storage tanks did not have secondary containment. Stained soil associated with fuel spillage was observed at one tank, but not all tanks were accessible due to access issues of muddy roads. The observed soil stained areas were limited to adjacent to the tanks.

3. A small residential dump site was discovered at the confluence of Ditch 11 and Drain 4. The site appeared to encompass an area approximately 30 feet x 40 feet. A substantial amount of glass bottles (mostly broken) tin cans, plastic containers, old farm equipment etc. was observed at the dump site and in Ditch 11. No drums or large chemical or fuel containers were observed. The site is considered a REC due to the potential dumping of hazardous substances including farming related chemicals.

See attachment E-5 for detail.

Stormwater Retention Plan: See attachment E-6 for detail.



FINAL REPORT

**WETLAND SURVEY
I-40 MEGA-SITE
CITY OF WEST MEMPHIS, AR**



April 2018



1000 Corporate Centre Drive
Suite 250
Franklin, Tennessee 37067
(615) 771-2480

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- Figure 3 I-40 Mega Site NWI Map
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- Figure 5 I-40 Mega Site, Site Features Map

ATTACHMENTS:

- Attachment 1 Field Data Forms
- Attachment 2 Photolog

Introduction

AECOM was contracted by the City of West Memphis to conduct a wetlands survey of a 1,800 acre tract of land located north and west of the City of West Memphis, Arkansas in an area proposed for an Industrial Park – I-40 Mega-site. The tract is located north of the City of West Memphis (Figure 1) and occupies approximately 1,800 acres. The property is bordered in the east side by Kuhn Road, on the west by State Highway 147, to the south by Interstate 40 and on the north by agricultural land on the western 2/3 and the Hino manufacturing plant on the northeastern 1/3. Drainage on the property flows to the south primarily via two named ditches, Ditch 10 and 11. Ditch 11 is also called Garant Bayou. The site drainage flows to Ditch 12, which flows south and becomes Cut-off Bayou. The property is designated as Zone X – “area of minimal flood hazard” (Figure 2). The Zone A, 100-year flood elevation is approximately 210 feet above mean sea level (ft msl) as indicated for land south of I-40. Land elevation in the project ranges from 210 to 219 ft msl within the graded agricultural fields with ditch channels at a lower elevation.

Topographic mapping, aerial survey, soils, geology, and other information were reviewed to determine the potential for the area to be associated with jurisdictional waters of the United States (i.e., “jurisdictional wetlands or streams”). Following review of the available literature, a wetlands delineation and stream characterization was performed in accordance with the procedures outlined in the US Army Corps of Engineers (USACE) Wetlands Delineation Manual, 1987 and the 2008 Gulf and Atlantic Coast Regional Supplement. The delineation included visual observation of the site and characterization of the vegetation, soils and hydrology to determine if various wetland criteria (hydric characteristics) were met.

The potential for wetlands on the property was reviewed by viewing the United States Fish and Wildlife Service (USFWS) Wetland Inventory Map (NWI) as shown on Figure 3. Four areas of potential wetlands, one pond and a number of drainages were indicated on the property by the NWI. The National Resource Conservation Service (NRCS) website was utilized to determine the soil types present on the site as a potential indicator of hydric soils and wetlands, Figure 4.

Following review of these data a delineation was conducted on April 17 and 18, 2018 by Mr. James R. Orr, biologist and certified wetland delineator with AECOM. Mr. James Orr served as senior biologist for the delineation and has over 25 years of experience with wetlands delineation.

The historic use of the property was reviewed to determine the potential for past activities to have influenced site conditions. The property has been in agricultural use for decades. These data plus the site inspection were utilized to make the determination of the potential for wetlands on the site and potential to be jurisdictional.

Literature Review

Wetlands

A National Wetlands Inventory map (NWI) was downloaded from the US Fish and Wildlife Service NWI website (Figure 3). The map indicated three forested wetlands, one shrub scrub wetland, one pond and nine riverine wetlands (ditches) on the property.

Ditch 11 (Garant Bayou) is a primary water course in the project area, located on the western side of the site. Ditch 11 flows from north to south and makes confluence with Ditch 12 south of Interstate 40. Ditch 10 also flows from north to south and is on the eastern side of the property. It also flows to Ditch 12 south of Interstate 40. A number of field drains were noted on the project site. These drains flow primarily either east or west into either Ditch 10 or 11.

Soils

The soils survey for the site was reviewed from the National Resources Conservation Service (NRCS) Web Soil survey. The majority of the soils in the Project area are of three types, Sharkey silty clay, 0 to 1% slopes, Forestdale silty clay loam and Alligator silty clay, 0 to 1 percent slopes (Figure 4). These soils have very slow infiltration rates, are clayey, have a highwater table, or are shallow to an impervious layer. All three are considered hydric soils.

In the field, soils were determined to be either hydric or non-hydric by the methods provided in the 1987 Manual and regional supplement. All fields were engineered for drainage to the various ditches on the property. During the survey, soil cores were collected and compared to the Munsell color chart. In addition, hydric characteristics were documented as listed in the Gulf Coast Atlantic Region data sheets.

Hydrology

Wetland hydrology at the site was determined by the hydrologic characteristics of the site and site mapping (USGS topographic map). Consideration was given to the human impacts such as farming practices, construction and grading. The major hydrologic features include the Ditches 11 and 10 which run north to south, along with a number of cross ditches running east and west. According to the FEMA flood insurance rate maps, the entire site lies in Zone X (area of minimal flood hazard). The 100-year flood zone (ZONE A) is located south of I-40, Figure 2 at an elevation range of 209 to 210. The elevation range at the property is from 210 to 219 msl. The entire property is flat and is in agricultural use with the exception of two small wooded areas, two irrigation ponds and two residents with small yards. All drainage on site leads south to Ditch 12 located on the south side of I-40.

Methods

The wetlands determination was performed in accordance with the procedures outlined in the Corps of Engineers Wetlands Delineation Manual, (1987) as well as the regional supplement for the Gulf Coast and Atlantic Region (2008). Data were collected to characterize wetland area in terms of hydrology, soils, dominant plant species, and wetland type on Data Form 1 as provided in the Regional Supplement (Attachment 1). Wetland boundaries were determined and recorded in the field with GIS files generated for each wetland area.

Four wetlands area were preliminarily identified by the NWI map. The entire site was then walked to determine if wetlands were present, particularly along drainage pathways. Following the inspection of drainages, the two wooded areas, were inspected for wetland characteristics and forms completed. A third area designated as wetland on the NWI was a large area formerly wooded and designated as a PFO on the southwest portion of the property. This area is currently graded and drained for growing rice and includes one irrigation pond. A fourth area designated as a PSS on the southeast portion of the property was a well-drained field north of a residence. Vegetation on the site has been impacted by agricultural use on a regular basis such that primarily annual herbaceous plants are present. The dominant plants included henbit and wild mustard in the non-wet areas.

Wetland determination methods utilizing a shovel were conducted to test soils conditions by comparison of site soils to the Munsell color chart. In addition, vegetation type and status was investigated to determine if wetland or upland plant species dominated. Soil cores were taken to a depth of up to 12 inches where needed or refusal. Wetland boundary locations were documented using a Trimble GPS with one meter accuracy. Flagging was used in the southeastern wooded area in the event confirmation by the Corps of Engineers is done. Photographs were taken of wetland and adjoining non-wetland areas. Data forms were completed for the one wetland area delineated and the upland area in the southeast section of the property as well as the wooded area on the northwest portion of property (Attachment 1). The wetland and other water bodies delineated or observed on the site are summarized in Figure 5. A photolog of the wetland locations is provided in Attachment 2.

A USACE Data Form 1 was completed for the wetland and upland area. The soil color and other characteristics such as depleted matrix and gleyed soils, were observed to determine the potential for hydric conditions. In addition to the soils characterization, vegetation was identified. The dominant vegetation was documented and percent cover was estimated. The wetland status of the vegetation was then determined from regional literature. The final characteristic that was evaluated was the hydrology. The hydrologic characteristics were evaluated by estimating the frequency and level of saturation of the area and by documenting the primary and secondary hydrological characteristics as indicated on Form 1 data sheets.

Field Survey

Based on the results of the literature review, wetlands and drainages were historically associated with the site. Four days prior to the field survey, approximately 3.0 inches of rainfall had occurred, which increased the amount of moist soils and standing water in low areas at the site. During the survey, no rain fell. Wetlands were identified in the field by the designation "W1". One wetland area totaling 7.0 acres was identified. Currently there are no plans to fill or disturb this area.

W-1 is dominated by forested wetland with a field drain to the south of it which flows west to Ditch 10. There is a small ditch around the wooded area. Tree species included; green ash (*Fraxinus pennsylvanica*), red maple (*Acer rubrum*), willow oak (*Quercus phellos*), American elm (*Ulmus americana*), and hackberry (*Celtis occidentalis*). Most species were characterized as Facultative (FAC) or FAC-wet. Poison ivy was very common as a shrub or woody vine layer with some sedges located on the western side of the woodlot representing the herbaceous layer. Upland vegetation that was present on the fringe included southern red oak (*Quercus falcata*), mockernut hickory (*Carya tomentosa*) and shagbark hickory (*Carya ovata*).

Conclusions

Based on the review of literature and maps of the site, jurisdictional Waters of the United States were present on the site. Field review revealed that a total of 7.0 acres of land with wetland characteristics is present on the southeast side of the site. The site has been engineered for rice production and graded. Field drainage culverts route rain-water to the ditches on the property and then to either Ditch 10 or 11. Both Ditch 10 and 11 are jurisdictional waters of the United States as these ditches are likely to maintain perennial flow. Six field drainage features were also observed on site. These drains were labeled 1-6 and are described in Table 1. Three of these drains (1, 2 and 6) exhibited signs of intermittent flow, drainage from a substantial area and a defined ordinary high water mark. Drains 2, 3 and 4 existed along field roads and were no more than 2,500 feet in length, were not very deep and partially dry at the time of the survey. Confirmation of the jurisdictional status is requested by the Memphis District Corps of Engineers. A Waters Table is provided in Table 1.

Table 1. Waters Table, I-40 Mega-site West Memphis AR.

Feature Name	Lat/Long	NWI Classification	Estimated Amount of Water Feature	Feature Type	Jurisdictional
Pond 1	35.1495/ -90.2858	PFO1A	8.4 ac	Irrigation Pond	No
Pond 2	35.1529/ -90.2663	PUBFh	7.25 ac	Irrigation Pond	No
Wetland 1	35.1549/ -90.2596	PFO1A	7.0 ac	PFO1A	Yes
Woodlot	35.1659/ -90.2790	PFO1A	2.0 ac	Upland forest	No
Ditch 10	35.1492/ -90.2642	RU2BH	1.38mi	Intermittent Stream	Yes
Ditch 11	35.1484/ -90.2823	RU2BH	1.46mi	Intermittent Stream	Yes
Drain 1	35.1621/ -90.2826	R5UBFX	3,470 ft	Field Drain	Yes
Drain 2	35.1537/ -90.2823	R5UBFX	3,140 ft	Field Drain	Yes
Drain 3	35.1657/ -90.2811	R5UBFX	2,546 ft	Field Drain	No
Drain 4	35.1621/ -90.2814	R5UBFX	2,546 ft	Field Drain	No
Drain 5	35.1616/ -90.2645	R5UBFX	2,546 ft	Field Drain	No
Drain 6	35.1544/ -90.2636	R5UBFX	2,522 ft	Field Drain	Yes

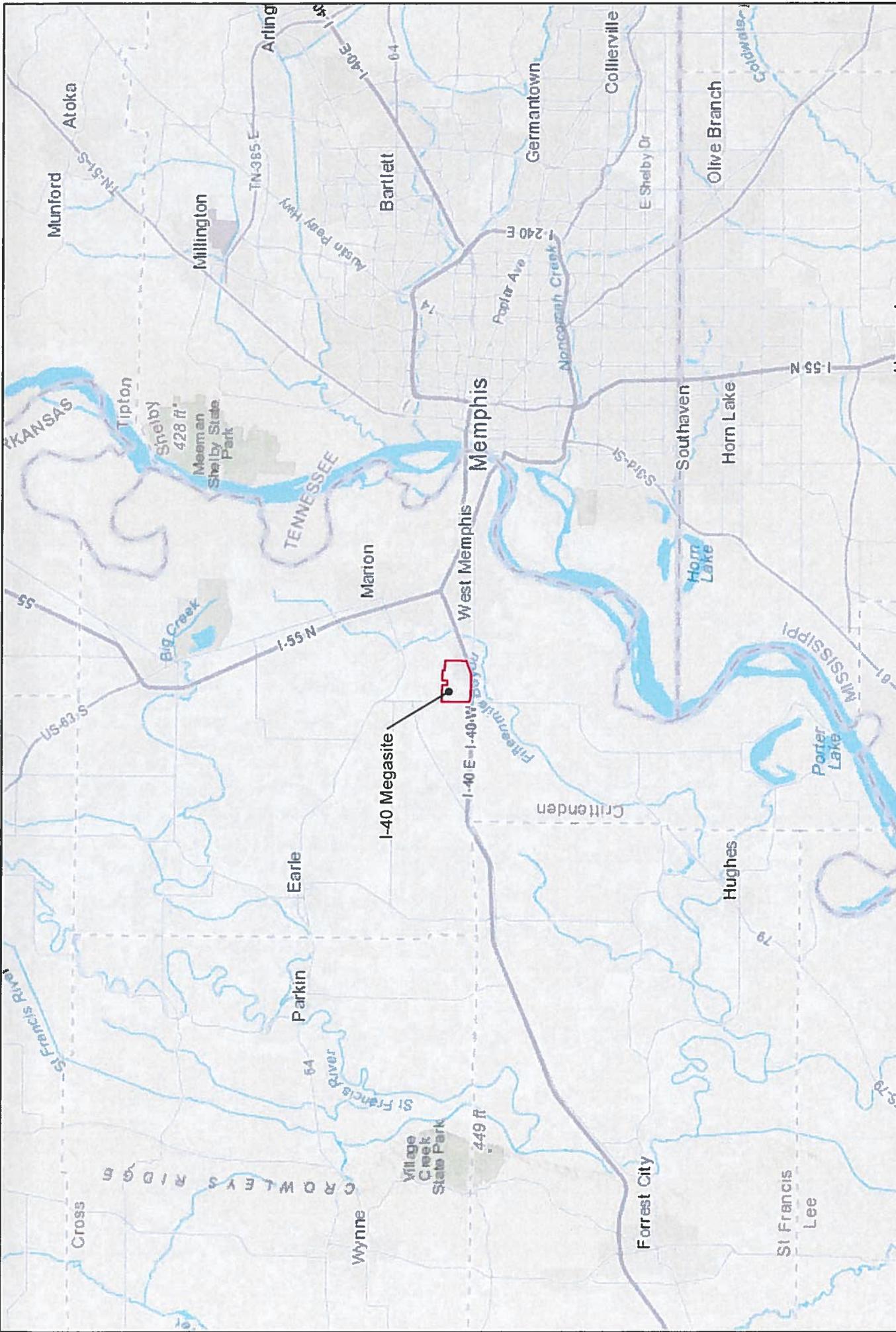
PFO1A: Palustrine Forested, broadleaf deciduous, temporarily flooded.

PUBFh: Palustrine unconsolidated bottom, semi-permanently flooded, diked.

R2UBH: Riverine unknown perennial, unconsolidated bottom, excavated.

R5UBFX: Riverine, lower perennial, permanently flooded, excavated.

Figures



PROJECT NUMBER
60572497

DATE
April, 2018

FIGURE NUMBER
1

**I-40 Mega Site
Site Location**

Marion, Arkansas, 72364

AECOM

1000 Corporate Centre Dr
Suite 250
Franklin, TN 37067

FILE NUMBER

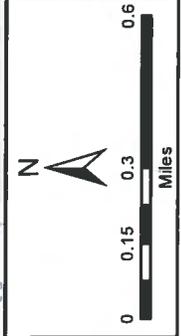
DESIGNED BY

MBE

DRAWN BY

MBE

CHECKED BY



Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



Legend

Site Boundary

Flood Zone Type

- Zone A - 100 Year Flood Area
- Zone X - Area of Minimal Flood Hazard

PROJECT NUMBER	60572497
DATE	April, 2018
FIGURE NUMBER	2

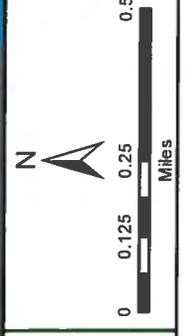
**I-40 Mega Site
FEMA Flood Zone Map**

Marion, Arkansas, 72364

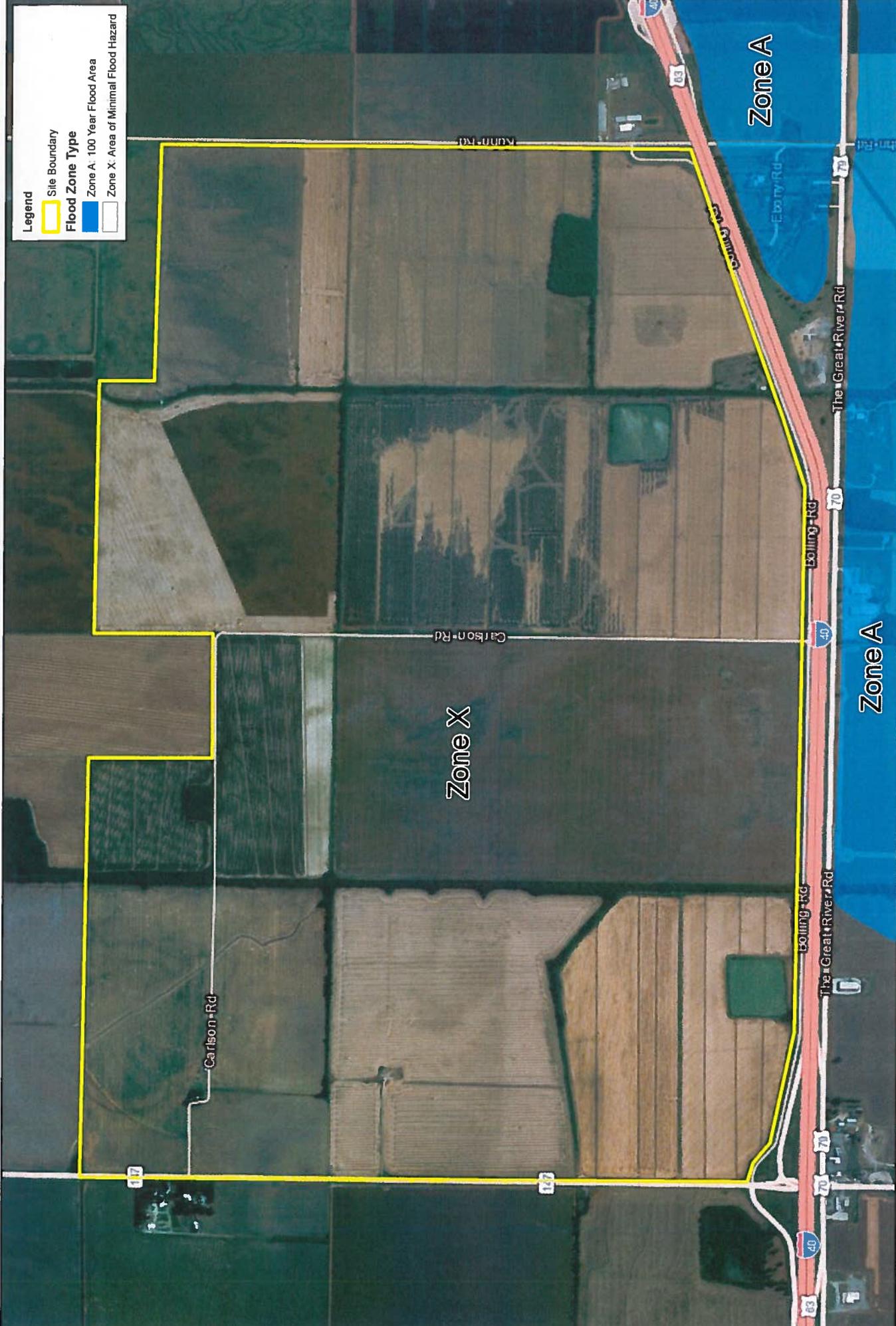
AECOM

1000 Corporate Centre Dr
Suite 250
Franklin, TN 37067

FILE NUMBER	
DESIGNED BY	MBE
DRAWN BY	MBE
CHECKED BY	



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Legend

Site Boundary

Flood Zone Type

- Zone A: 100 Year Flood Area
- Zone X: Area of Minimal Flood Hazard

PROJECT NUMBER	60572497
DATE	April, 2018
FIGURE NUMBER	2

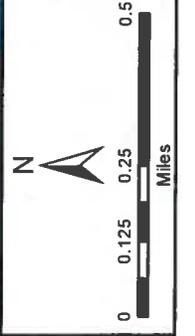
**I-40 Mega Site
FEMA Flood Zone Map**

Marion, Arkansas, 72364

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Suite 250
Franklin, TN 37067

FILE NUMBER	
DESIGNED BY	MBE
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Legend

- Site Boundary
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Riverine

PROJECT NUMBER
60572497

DATE
April, 2018

FIGURE NUMBER
3

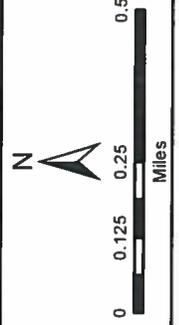
I-40 Mega Site NWI Map

Marion, Arkansas, 72364

AECOM

1000 Corporate Centre Dr
Suite 250
Franklin, TN 37067

FILE NUMBER	
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DRAWN BY	MBE
CHECKED BY	



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Legend

Site Boundary

NRCS Soil Type

- AIA
- DsU
- DUA
- Fo
- ShA
- ShU
- TnA
- W

PROJECT NUMBER
60572497

DATE
April, 2018

FIGURE NUMBER
4

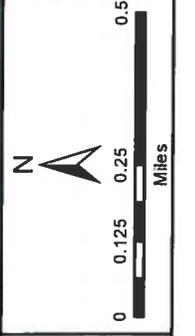
**I-40 Mega Site
NRCS Soil Map**

Marion, Arkansas, 72364

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PROJECT NUMBER
60572497

DATE
April, 2018

FIGURE NUMBER
5

I-40 Mega Site
Site Features Map

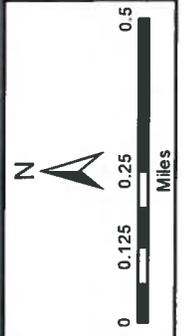
Marion, Arkansas, 72364

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Suite 250
Franklin, TN 37067

FILE NUMBER

DESIGNED BY	MBE
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Attachment 1
Field Data Forms

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: I-40 Mega-site City/County: Crittendon County Sampling Date: 4/17/2018
 Applicant/Owner: City of West Memphis State: AR Sampling Point: NW Woodlot
 Investigator(s): J. Orr Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Ag. field Local relief (concave, convex, none): Flat Slope (%): 0-1
 Subregion (LRR or MLRA): _____ Lat: 35.16574 Long: -90.27927 Datum: NAD 83
 Soil Map Unit Name: Sharkey silt clay NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology Yes significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Remarks: Drainage ditch to the south of woodlot. NWI map identified as PFO, but field determination indicated it is a non-wetland.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: NW Woodlot

<u>Tree Stratum</u> (Plot size: <u>1 ac.</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. Mockernut hickory <i>Carya tomentosa</i>	50	x	FACU
2. Willow oak	7		FACW
3. Hackberry <i>Celtis occidentalis</i>	20	x	FACU
4. Persimmon	4		FAC
5. Southern red oak	10		FACU
6. Red cedar	3		Upl
7. Shagbark hickory	4		FACU
8. _____			
			98 = Total Cover
50% of total cover: <u>49</u>		20% of total cover: <u>19.6</u>	
<u>Sapling/Shrub Stratum</u> (Plot size: _____)			
1. Mockernut hickory	30	x	FACU
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
			30 = Total Cover
50% of total cover: <u>15</u>		20% of total cover: _____	
<u>Herb Stratum</u> (Plot size: _____)			
1. blue Violets <i>Viola sororia</i>	20	x	FAC
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			
			x = Total Cover
50% of total cover: <u>10</u>		20% of total cover: _____	
<u>Woody Vine Stratum</u> (Plot size: _____)			
1. Poison ivy	20	x	FAC
2. Wild Grape	10	x	FAC
3. Greenbriar	10	x	FAC
4. Honeysuckle	10	x	FAC
5. _____			
			50 = Total Cover
50% of total cover: <u>25</u>		20% of total cover: <u>10</u>	

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
 Total Number of Dominant Species Across All Strata: 8 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 62.5 (A/B)

Prevalence Index worksheet:
 Total % Cover of: _____ Multiply by:
 OBL species _____ x 1 = _____
 FACW species _____ x 2 = _____
 FAC species _____ x 3 = _____
 FACU species _____ x 4 = _____
 UPL species _____ x 5 = _____
 Column Totals: _____ (A) _____ (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
 ___ 1 - Rapid Test for Hydrophytic Vegetation
 ___ 2 - Dominance Test is >50%
 ___ 3 - Prevalence Index is ≤3.0¹
 ___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:
Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes x No _____

Remarks: (If observed, list morphological adaptations below).

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: I-40 City/County: Crittendon County Sampling Date: 4/18/2018
 Applicant/Owner: City of West Memphis State: AR Sampling Point: SEWL
 Investigator(s): J. Orr Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Ag. field woodlot Slope (%): 0-1
 Subregion (LRR or MLRA): _____ Lat: 35.154893 Long: -90.259616 Datum: NAD-83
 Soil Map Unit Name: Shakey silt loam NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology y significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Remarks: Woodlot is surrounded by ditches. Outlet at NE and SW corners.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <table style="width:100%; border: none;"> <tr> <td style="width:50%; vertical-align: top;"> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) </td> <td style="width:50%; vertical-align: top;"> <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks) </td> </tr> </table>	<input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (minimum of two required) <table style="width:100%; border: none;"> <tr><td><input type="checkbox"/> Surface Soil Cracks (B6)</td></tr> <tr><td><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</td></tr> <tr><td><input type="checkbox"/> Drainage Patterns (B10)</td></tr> <tr><td><input type="checkbox"/> Moss Trim Lines (B16)</td></tr> <tr><td><input type="checkbox"/> Dry-Season Water Table (C2)</td></tr> <tr><td><input type="checkbox"/> Crayfish Burrows (C8)</td></tr> <tr><td><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</td></tr> <tr><td><input type="checkbox"/> Geomorphic Position (D2)</td></tr> <tr><td><input type="checkbox"/> Shallow Aquitard (D3)</td></tr> <tr><td><input type="checkbox"/> FAC-Neutral Test (D5)</td></tr> <tr><td><input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)</td></tr> </table>	<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Drainage Patterns (B10)	<input type="checkbox"/> Moss Trim Lines (B16)	<input type="checkbox"/> Dry-Season Water Table (C2)	<input type="checkbox"/> Crayfish Burrows (C8)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	<input type="checkbox"/> Geomorphic Position (D2)	<input type="checkbox"/> Shallow Aquitard (D3)	<input type="checkbox"/> FAC-Neutral Test (D5)	<input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)
<input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)													
<input type="checkbox"/> Surface Soil Cracks (B6)														
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)														
<input type="checkbox"/> Drainage Patterns (B10)														
<input type="checkbox"/> Moss Trim Lines (B16)														
<input type="checkbox"/> Dry-Season Water Table (C2)														
<input type="checkbox"/> Crayfish Burrows (C8)														
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)														
<input type="checkbox"/> Geomorphic Position (D2)														
<input type="checkbox"/> Shallow Aquitard (D3)														
<input type="checkbox"/> FAC-Neutral Test (D5)														
<input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)														

Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>2</u> Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>2</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: SEWL

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u>7 ac</u>)				
1. Red maple, <i>Acer rubrum</i>	20	x	FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>9</u> (A) Total Number of Dominant Species Across All Strata: <u>10</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>90</u> (A/B)
2. Green Ash, <i>Fraxinus pennsylvanica</i>	20	x	FACW	
3. Hackberry, <i>Celtis occidentalis</i>	20	x	FACU	
4. Sweet gum	7		FAC	
5. Willow oak	7		FACW	
6. Southern red oak	5		FACU	
7. _____	2			
8. _____				
	81 = Total Cover			
	50% of total cover: <u>40.5</u>		20% of total cover: <u>16.2</u>	
Sapling/Shrub Stratum (Plot size: _____)				
1. Red maple	50	x	FACW	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2. Paw-paw	4		FAC	
3. Elderberry	4			
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
	58 = Total Cover			
	50% of total cover: <u>29</u>		20% of total cover: _____	
Herb Stratum (Plot size: _____)				
1. Jewel weed, <i>Impatiens capensis</i>	20	x	FACW	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Carex spp.	15	X	FACW	
3. Violet	5			
4. Green dragon	1			
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
	40 = Total Cover			
	50% of total cover: <u>20</u>		20% of total cover: <u>8</u>	
Woody Vine Stratum (Plot size: _____)				
1. Smilax	20	x	FAC	Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
2. Grape	10			
3. Honeysuckle	20	x	FAC	
4. Poison ivy	30	x	FAC	
5. _____				
	60 = Total Cover			
	50% of total cover: <u>30</u>		20% of total cover: <u>12</u>	
Hydrophytic Vegetation Present? Yes <u>x</u> No _____				

Remarks: (If observed, list morphological adaptations below).

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: I-40 City/County: Shelby County Sampling Date: 4/18/2018
 Applicant/Owner: City of West Memphis State: TN Sampling Point: UPL-SEWL
 Investigator(s): J. Orr Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____
 Subregion (LRR or MLRA): _____ Lat: 35.155171 Long: -90.258088 Datum: NAD-83
 Soil Map Unit Name: Shakey silt loam NWI classification: non-wetland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology Yes significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland?	
Hydric Soil Present?	Yes _____ No <u>X</u>		Yes _____ No <u>X</u>
Wetland Hydrology Present?	Yes _____ No <u>X</u>		
Remarks:			

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
<u>Primary Indicators (minimum of one is required; check all that apply)</u>			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Marl Deposits (B15) (LRR U)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Water-Stained Leaves (B9)		<input type="checkbox"/> FAC-Neutral Test (D5)	
		<input type="checkbox"/> Sphagnum moss (D8) (LRR T, U)	
Field Observations:			
Surface Water Present?	Yes _____ No <u>X</u> Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <u>X</u>	
Water Table Present?	Yes _____ No <u>X</u> Depth (inches): _____		
Saturation Present? (includes capillary fringe)	Yes _____ No <u>X</u> Depth (inches): _____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: UPL-SEWL

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. Southern red oak	15	x	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>62.5</u> (A/B)
2. Mockernut hickory	15	x	FACU	
3. Hackberry	10			
4. Shagbark hickory	5			
5. Willow oak	5			
6. _____	5			
7. Green Ash	20	x	FACW	
8. _____				
<u>75</u> = Total Cover 50% of total cover: <u>37.5</u> 20% of total cover: <u>15</u>				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				
1. mockernut hickory	15	x	FACU	
2. Paw-paw	30	x	FAC	
3. Elderberry	20	x	FAC	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
<u>65</u> = Total Cover 50% of total cover: <u>32.5</u> 20% of total cover: <u>13</u>				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
<u>Herb Stratum</u> (Plot size: _____)				
1. Blue Violets	25	x	FAC	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
<u>25</u> = Total Cover 50% of total cover: _____ 20% of total cover: _____				Definitions of Four Vegetation Strata: Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height.
<u>Woody Vine Stratum</u> (Plot size: _____)				
1. Poison ivy	70	x	FAC	
2. Greenbriar	5			
3. _____				
4. _____				
5. _____				
<u>75</u> = Total Cover 50% of total cover: <u>37.5</u> 20% of total cover: <u>15</u>				
Remarks: (If observed, list morphological adaptations below).				

Attachment 2
Photo-Log

Client Name:

City of West Memphis

Site Location:

I-40 Mega-site

Project No.

Photo No.

001

04/17/18

Description:

Drain 6 on SE corner of property facing west.
Flow to the west.



Photo No.

002

04/17/18

Description:

Ditch 10 on north end of property line facing south



Client Name:

Site Location:

Project No.

Photo No.
003

04/17/18

Description:

Drain 5, east end facing west.

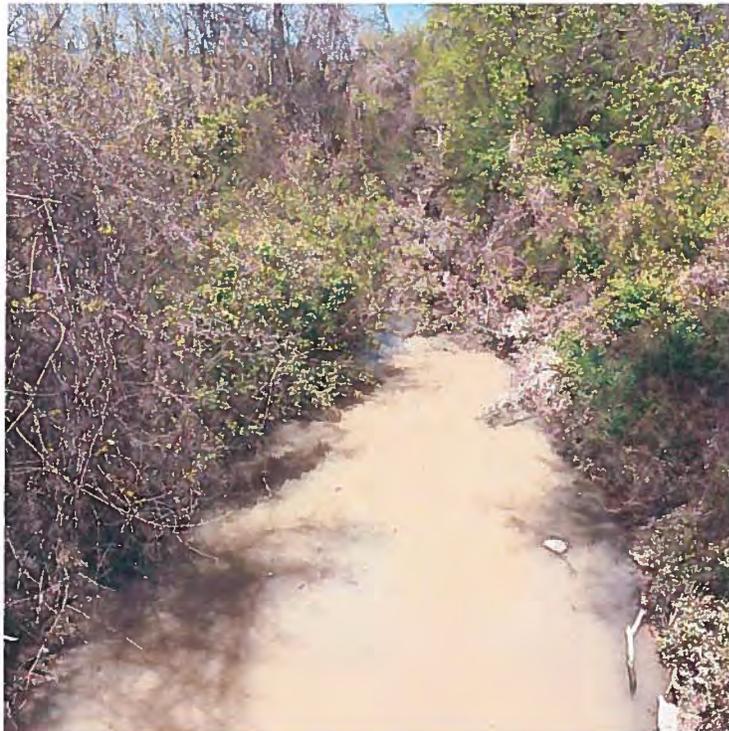


Photo No.
004

04/17/18

Description:

Ditch 10 on south end near I-40, facing north.



Client Name:

Site Location:

Project No.

Photo No.
005

04/17/18

Description:

Ditch 11 (Garant Bayou)
near I-40 facing north.



Photo No.
006

04/17/18

Description:

West side of Pond 1
facing north



Client Name:		Site Location:	Project No.
Photo No. 007	04/17/18	 A wide-angle photograph showing the east side of Pond 1. The foreground is dominated by tall, dry, yellowish-brown grasses. In the middle ground, a single, bare tree stands on the left side of the pond. The pond itself is a calm body of water extending to the horizon. The sky is a clear, bright blue with a few wispy clouds.	
Description: East side of Pond 1 facing northeast.			

Photo No. 008	04/17/18	 A photograph showing a field drain. In the foreground, there is a dense thicket of tall, dry, brown grasses. A small, dark, rectangular opening in the ground is visible, which is the entrance to the drain. The ground around the drain is muddy and dark. In the background, a large, flat, brown field stretches to the horizon under a clear sky.	
Description: Field drain into the head of Drain 2 facing north			

Client Name:

Site Location:

Project No.

Photo No.
009

04/17/18

Description:

Drain 2 facing east



Photo No.
010

04/17/18

Description:

Drain 2 facing southeast
near confluence with Ditch
11.



Client Name:

Site Location:

Project No.

Photo No.

011

04/17/18

Description:

Drain 2 at Ditch 11



Photo No.

012

04/17/18

Description:

Drain 1 at Carlson Road facing south.



Client Name:

Site Location:

Project No.

Photo No.

013

04/17/18

Description:

Ditch 11 at Carlson Road facing north



Photo No.

014

04/17/18

Description:

Ditch 11 at Carlson Road facing south



Client Name:

Site Location:

Project No.

Photo No.
015

04/17/18

Description:

Drain 3 at Ditch 11 facing east



Photo No.
016

04/17/18

Description:

Woodlot north of Carlson Road facing north.



Client Name:		Site Location:	Project No.
Photo No. 017	04/17/18		
Description: Drain 4 at Ditch 11 facing east.			

Photo No. 018	04/17/18	
Description: Drain 1 confluence with Ditch 11.		

Client Name:		Site Location:	Project No.
Photo No. 019	04/17/18		
Description: Pond 2 SE corner facing NW.			

Photo No. 020	04/17/18	
Description: Drainage ditch around Wetland 1 on the east side facing north.		

Client Name:

Site Location:

Project No.

Photo No.

021

04/17/18

Description:

Outlet for Wetland 1 on the NW corner of wetland facing SE.



Photo No.

022

04/17/18

Description:

Upland sample point on the East side of Wetland 1.



Client Name:		Site Location:	Project No.
Photo No. 023	04/17/18		
Description: Wetland 1 SW corner facing east			

Photo No. 024	04/17/18	
Description:		



DEPARTMENT OF THE ARMY
MEMPHIS DISTRICT CORPS OF ENGINEERS
167 NORTH MAIN STREET B-202
MEMPHIS, TENNESSEE 38103-1894

June 7, 2018

Mr. James R. Orr
1000 Corporate Drive Suite 250
Franklin, TN 37067

Dear Mr. Orr:

This is in reference to your request for an environmental review to develop an 1,800 acre tract in the City of West Memphis, Crittenden County, Arkansas, as shown on the attached map.

Based on the information you provided, a site visit on May 15, 2018, and other information available to us, it is our preliminary jurisdictional determination (PJD) that the following, as shown on the attached map, may be jurisdictional waters of the United States: Wetland 1, Ditches 10 & 11, and Drains 1,2, 5, & 6. Any deposition of dredged or fill material into waters of the United States is subject to Corps of Engineers regulatory authority under Section 404 of the Clean Water Act. However, you indicated that no material would be deposited in this area; therefore, no Corps of Engineers permit is required under Section 404. Please contact this office to discuss permit considerations if project plans change.

A PJD cannot be appealed. If you object to this PJD, please contact us for information about receiving an approved jurisdictional determination and the administrative appeals process. The PJD is included for your concurrence. If you agree with this PJD please sign the form and return it to the address listed above. If the PJD is not returned within 30 days of the date of this letter, we will assume your concurrence. If you have further questions regarding this PJD, please see Section I.E. of the enclosed Notification of Administrative Appeals Options and Process and Request for Appeal (RFA).

The project location also contains Pond 1 & 2, a Wood Lot, and Drains 3 & 4. Based on the information you provided, and other information available to us, it is our approved jurisdictional determination (AJD) that the locations stated above do not contain any wetlands or other waters of the United States. Therefore, permit authorization from the Corps of Engineers is not required under Section 404 of the Clean Water Act. However, please contact this office if plans change and impacts to potential waters downstream will be required.

This letter contains an approved jurisdictional determination for your subject site. If you object to this determination, you may request an administrative appeal under Corps

of Engineers regulations at 33 CFR Part 331. Enclosed you will find a RFA form. If you request to appeal this determination you must submit a completed RFA form to the Mississippi Valley Division at the following address:

Appeals Review Officer
Mississippi Valley Division
P.O. Box 80
Vicksburg, Mississippi 39181-0080

In order for an RFA to be accepted by the Corps of Engineers, the Corps of Engineers must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5 and that it has been received by the division office within 60 days of the date of the RFA. Should you decide to submit an RFA form, it must be received at the above address by August 6, 2018. It is not necessary to submit an RFA form to the division office if you do not object to the determination in this letter.

The Memphis District Regulatory Branch is committed to providing quality and timely service to our customers. In an effort to improve customer service, we invite you to complete a Customer Service Survey found at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey. Your comments, positive or negative, will not affect any current or future dealings with the Corps of Engineers.

If you have questions, please contact Emily McCann at (901) 544-0731 and refer to File No. MVM-2018-175.

Sincerely,



Roger S. Allan
Supervisor
Regulatory Branch

Enclosures

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: 31-May 2018

B. NAME AND ADDRESS OF PERSON REQUESTING PJD:

Mr. James R. Orr
AECOM
1000 Corporate Drive Suite 250
Franklin, TN 37067

C. DISTRICT OFFICE, FILE NAME, AND NUMBER: MVM-2018-175

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: Arkansas County/parish/borough: Crittenden City: West Memphis

Center coordinates of site (lat/long in degree decimal format):

Lat.: 35.158471, Long.: -90.274721

Name of nearest waterbody: Mississippi River

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s): 15-May, 2018

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
Wetland 1	35.1549	-90.2596	7 acres	Wetland	Section 404
Ditch 10	35.1492	-90.2642	1.38 miles	Intermittent Stream	Section 404
Ditch 11	35.1484	-90.2823	1.46 miles	Intermittent Stream	Section 404
Drain 1	35.1621	-90.2826	3,740 linear feet	Intermittent Stream	Section 404
Drain 2	35.1537	-90.2823	3,140 linear feet	Intermittent Stream	Section 404

Drain 5	35.1616	-90.2645	2, 546 linear feet	Intermittent Stream	Section 404
Drain 6	35.1544	-90.2636	2,522 linear feet	Intermittent Stream	Section 404

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "*may be*" waters of the U.S. and/or that there "*may be*" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- Maps, plans, plots or plat submitted by or on behalf of the PJD requestor: 02-May 2018.
- Data sheets prepared/submitted by or on behalf of the PJD requestor.
 - Office concurs with the revised data sheets/delineation report submitted by AECOM, 18- May 2018.
 - Office does not concur with data sheets/delineation report. Rationale: _____.
- Data sheets prepared by the Corps: _____.
- Corps navigable waters' study: _____.
- U.S. Geological Survey Hydrologic Atlas: _____.
- USGS NHD data.
- USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: 1:24K Crawfordsville.
- Natural Resources Conservation Service Soil Survey. Citation: _____.
- National wetlands inventory map(s). Cite name: _____.
- State/local wetland inventory map(s): _____.
- FEMA/FIRM maps: _____.
- 100-year Floodplain Elevation is: _____. (National Geodetic Vertical Datum of 1929)
- Photographs:
 - Aerial (Name & Date): Google Earth, 15-May 2018.
 - Other (Name & Date): Site Visit photos, 15-May 2018.
- Previous determination(s). File no. and date of response letter: _____.
- Other information (please specify): _____.

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.



Emily Kathryn McCann
Biologist, Regulatory
30-May 2018

Signature and date of
person requesting PJD
(REQUIRED, unless obtaining
the signature is impracticable)¹

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.



Legend

Site Boundary

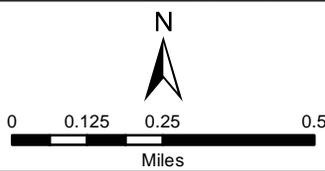
Flood Zone Type

Zone A: 100 Year Flood Area

Zone X: Area of Minimal Flood Hazard

T:\GIS\Franklin_Work\Ornl-I-40_Megasite\FEMA_Map.mxd

Service Layer Credits: Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



FILE NUMBER	
DESIGNED BY	MBE
DRAWN BY	MBE
CHECKED BY	

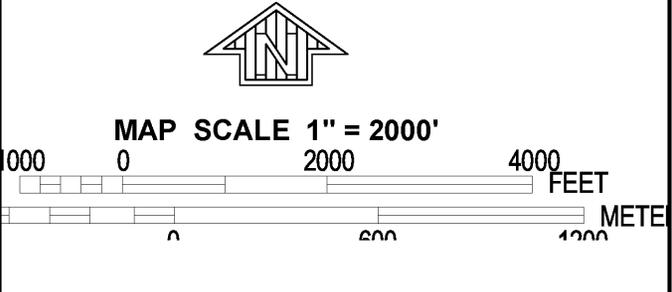
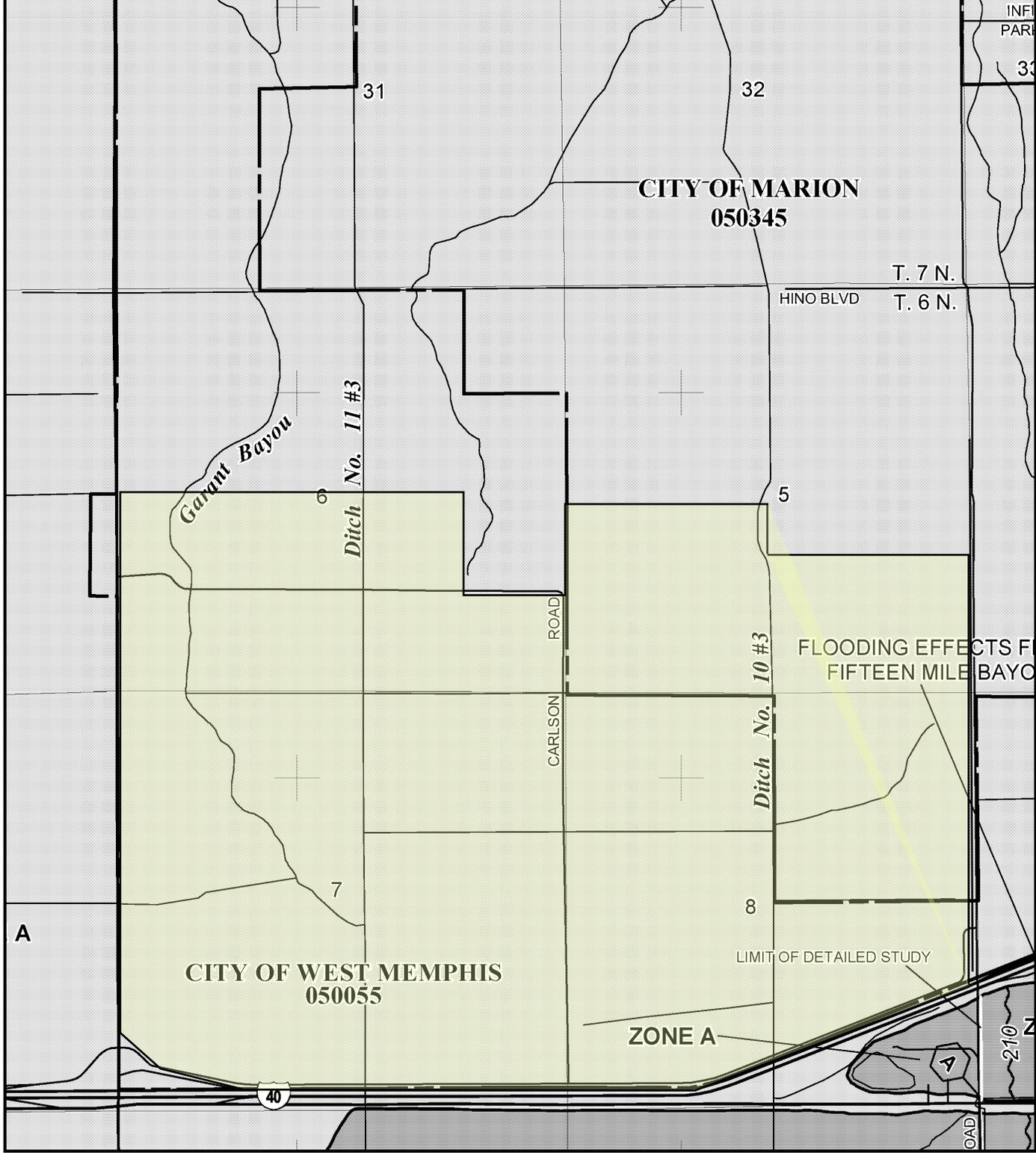
AECOM

1000 Corporate Centre Dr
 Suite 250
 Franklin, TN 37067

I-40 Mega Site
 FEMA Flood Zone Map

Marion, Arkansas, 72364

PROJECT NUMBER	60572497
DATE	April, 2018
FIGURE NUMBER	2



INFIP
PAR

PANEL 0325E

FIRM
FLOOD INSURANCE RATE MAP
CRITTENDEN COUNTY,
ARKANSAS
AND INCORPORATED AREAS

PANEL 325 OF 600
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CRITTENDEN COUNTY	050429	0325	E
CRAWFORDSVILLE, TOWN OF	050317	0325	E
MARION, CITY OF	050345	0325	E
WEST MEMPHIS, CITY OF	050055	0325	E

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
05035C0325E

EFFECTIVE DATE
MAY 3, 2011

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM

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



THE DEPARTMENT OF ARKANSAS
HERITAGE

Asa Hutchinson
Governor

Stacy Hurst
Director

October 18, 2018

Mr. Phillip Sorrell
Economic Development Director
City of West Memphis

RE: Crittenden County
The Proposed I-40 Mega Site, Kuhn Road and I-40 West
West Memphis and Marion, Arkansas
AHPP Tracking Number: 101026.01

Arkansas Arts Council

Arkansas Historic
Preservation Program

Arkansas Natural
Heritage Commission

Arkansas State Archives

Delta Cultural Center

Historic Arkansas Museum

Mosaic Templars
Cultural Center

Old State House Museum

Dear Mr. Sorrell:

This letter is in response to the Screening Level Cultural Resources Assessment Report for the I-40 Mega Site in West Memphis and Marion, Arkansas.

Based on the information presented in this report and the stage at which this proposed project is at, the AHPP agrees with the recommendation that a Phase I Cultural Resource Survey will be required based upon how and if a federal nexus occurs. Once the federal agency or agencies have been identified, the proposed action or actions under their jurisdiction should be submitted to the AHPP for review. As per Section 106 of the National Historic Preservation Act (NHPA), Tribal Consultation is the responsibility of the federal agency and should be taken into account when planning.

Tribes that have expressed an interest in the area include the Cherokee Nation (Ms. Elizabeth Toombs), the Chickasaw Nation (Ms. Karen Brunso), the Choctaw Nation of Oklahoma (Dr. Ian Thompson), the Muscogee (Creek) Nation (Ms. Corain Lowe-Zepeda), the Osage Nation (Dr. Andrea Hunter), the Quapaw Nation of Oklahoma (Mr. Everett Bandy), and the Shawnee Tribe of Oklahoma (Ms. Tonya Tipton). We recommend that they be consulted in accordance with 36 CFR § 800.2 (c) (2).

In addition to the federal laws and regulations, the AHPP also recommends that the state archaeological and burial laws be consulted throughout the proposed planning process. The state laws are located at <http://archeology.uark.edu/state-archeologist/laws/>

Thank you for the opportunity to comment on this request. Please refer to the AHPP Tracking Number listed above in all correspondence. If you have any questions, please call Tim Dodson of my staff at 501-324-9784.

Sincerely,

Scott Kaufman
Director, AHPP

cc: Dr. Ann Early, Arkansas Archeological Survey



ARKANSAS HISTORIC
PRESERVATION PROGRAM



1100 North Street
Little Rock, AR 72201

(501) 324-9880
fax: (501) 324-9184

info@arkansaspreservation.org
www.arkansaspreservation.com

An Equal Opportunity Employer

FINAL REPORT

**SCREENING LEVEL CULTURAL
RESOURCES ASSESSMENT
REPORT
I-40 MEGA SITE
KUHN ROAD AND I-40 WEST
WEST MEMPHIS AND MARION,
ARKANSAS**

May 2018



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Franklin, Tennessee 37067
(615) 771-2480
URS Project No. 20500698

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EXECUTIVE SUMMARY

This report presents the results of a screening level cultural resource assessment conducted for the proposed 1,800-acre I-40 Mega Site (Site), located in Crittenden County, Arkansas. The report includes a review of available web-based cultural resources data and soils, and the results of coordination with the Arkansas Historic Preservation Program (AHPP).

Based on a desktop review of the National Historic Register of Properties (NRHP) and the Arkansas Register of Historic Properties (ARHP) within a 1-mile buffer (Study Area) around the Site, **no properties listed in the NRHP are present.** Investigations of electronic AHPP site files revealed that two historic archaeological sites (3CT427 and 3CT428) are within the 1-mile Study Area; neither is located within the boundaries of the Site. The desktop review revealed three places of worship (e.g., churches) within the Study Area. Of these, only one (Reynold Grove Church) was identified within the boundaries of the Site. The Reynold Grove Church structure appears to be no longer standing. The New Lehi Church, is outside of, but situated immediately adjacent to the Site on the west side Highway 147. Given its historic age (>50 years), a review by an architectural historian may be necessary to assess the eligibility of this structure for listing in the NRHP. The Jackson Chapel is within the Study Area, but is situated approximately 0.65 miles north of the Site. Review of topographic maps and aerial photographs indicate that this structure is no longer standing.

No recreational resources were identified in the Study Area. Examination of historic topographic maps and aerial photographs indicates that numerous standing structures once stood inside the boundaries of the Site, particularly in the vicinity of the communities of Lehi, Reynold Grove near U.S. 70, and along Garant Bayou, but many of these structures have since been leveled or otherwise removed. A review of the project area soils indicates that a low percentage of the Site exhibit high archeological potential.

Following an initial coordination request, the AHPP recommended that a cultural resources survey should be conducted for the entire area of potential effect (APE). In addition, the AHPP recommended that consultation should be undertaken with several Tribes that have expressed an interest in the area (AHPP Tracking Number 101026). In the event a proposed project includes a Federal nexus i.e. federal funding or a federal permit such as a Section 404 permit, additional cultural resources survey would be required. Based upon the screening level cultural resources survey, the assessment of the geomorphology and soils within the project area, and correspondence with the AHPP, a cultural resources survey of areas proposed for disturbance within the I-40 Mega Site is recommended prior to any developments of the Site.

1.0 STUDY AREA AND METHODOLOGY

AECOM conducted a screening level cultural resource assessment for the 1,800-acre I-40 Mega Site (Site), located northwest of the junction of Interstate Highway (IH) 40 and United States (U.S.) Highway 70 in Crittenden County, Arkansas. The Site consists primarily of agricultural and undeveloped land (**Figure 1**).

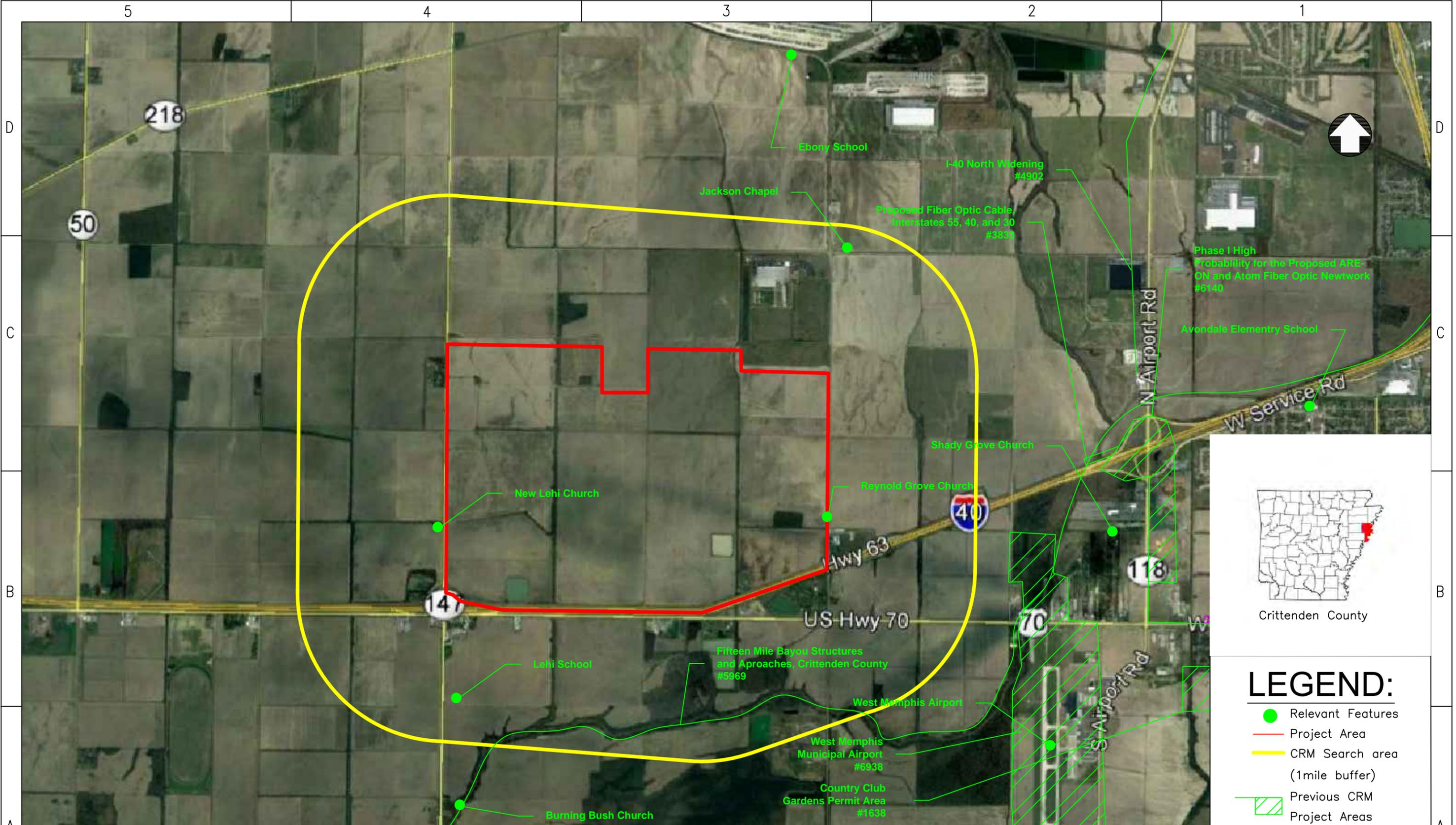
1.1 STUDY AREA

A 1-mile buffer (Study Area) around the Site was utilized for evaluating potential cultural resource impacts. The Study Area is larger than the immediate I-40 Mega Site because the potential effects of the proposed project could extend into the local community beyond the physical footprint of the proposed activities in the project area. **Figure 1** illustrates the extent of the Study Area and documented cultural resources obtained from publicly available data-bases.

1.2 METHODOLOGY AND SOURCES CONSULTED

A desktop review of properties listed on the National Historic Register of Properties (NRHP) and the Arkansas Register of Historic Properties (ARHP) was conducted to examine the proximity of listed historic properties to the Site. The Arkansas Historic Preservation Program (AHPP) was coordinated with regarding the presence of historic and archaeological resources that may be located within the Study Area.

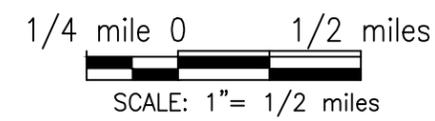
Other data was gathered from United States Census TIGER Geographic Information System shapefiles for Arkansas landmarks. These files provide locations for a variety of landmarks across the state including parks, places of worship, and cemeteries.



Crittenden County

LEGEND:

- Relevant Features
- Project Area
- CRM Search area (1mile buffer)
- Previous CRM Project Areas



I-40 Mega Site
Marion Arkansas



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Little Rock, AR 72211

Cultural Resource
Study Area
May 2018

FIG.#: 2	JOB FILE#:
REV.#:	CAD FILE#: FIGURE 1
PROJ.#:	

SCALE: AS NOTED	DRAWN BY: JB	DATE: 05-08-18
	CHKD BY: SH	DATE: 05-08-18

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2.0 CULTURAL RESOURCES

2.1 NATIONAL AND ARKANSAS REGISTERS OF HISTORIC PLACES

A desktop review of currently listed historic properties was conducted for Crittenden County, Arkansas. The results of this search are included in **Table 1**. None are located within the Study Area.

Table 1: Listed Historic Properties of Crittenden County, Arkansas

SITE	REGISTER	LOCATION	CITY
CRITTENDEN COUNTY BANK AND TRUST	NRHP	S SIDE OF MILITARY RD, MARION, ARKANSAS	MARION
CRITTENDEN COUNTY COURTHOUSE	NRHP	85 JACKSON ST, MARION, ARKANSAS	MARION
DABBS STORE	NRHP	1320 S AVALON, WEST MEMPHIS, ARKANSAS	WEST MEMPHIS
GEORGE BERRY WASHINGTON MEMORIAL	NRHP	HWY 149 N OF EARLE, EARLE, ARKANSAS	EARLE
HAMILTON APARTMENTS	NRHP	113 W DANNER ST, WEST MEMPHIS, ARKANSAS	WEST MEMPHIS
HIGHWAY A-7, GILMORE TO TURRELL	NRHP	OLD US 63 BETWEEN ACWIN ST IN GILMORE TO DITCH NO. 2 IN TURRELL	GILMORE
JOHNSON-PORTIS HOUSE	NHRP	400 N. AVALON STREET	WEST MEMPHIS
LAWRIE HOUSE	NRHP	600 N 7TH ST, WEST MEMPHIS, ARKANSAS	WEST MEMPHIS
MARION COLORED HIGH SCHOOL	NRHP	W OF HWY 77, SUNSET, ARKANSAS	SUNSET
MEMPHIS AND ARKANSAS BRIDGE	NRHP	SPANNING THE MISSISSIPPI RIVER	WEST MEMPHIS
MISSOURI-PACIFIC DEPOT	NRHP	MAIN & COMMERCE ST, EARLE, ARKANSAS	EARLE
OLD EARLE HIGH SCHOOL	NRHP	RUTH ST & HIGH 2ND ST, EARLE, ARKANSAS	EARLE
OLD TURRELL CITY HALL	NRHP	160 EUREKA ST, TURRELL, ARKANSAS	TURRELL
RIVERSIDE SPEEDWAY	NRHP	151 LEGION RD, WEST MEMPHIS, ARKANSAS	WEST MEMPHIS
WEST MEMPHIS CITY HALL	NRHP	100 COURT ST, WEST MEMPHIS, ARKANSAS	WEST MEMPHIS
WEST MEMPHIS COMMERCIAL HISTORIC DISTRICT	NRHP	700, 800 AND 900 BLOCKS OF EAST BROADWAY, WEST MEMPHIS, ARKANSAS	WEST MEMPHIS
WILSON POWER AND LIGHT COMPANY ICE PLANT	NRHP	120 E BROADWAY, WEST MEMPHIS, ARKANSAS	WEST MEMPHIS
WAVERLY PLANTATION	ARHP	JUNCTION OF COUNTY ROAD 215 AND 7, WAVERLY, ARKANSAS	WAVERLY
BETHEL METHODIST EPISCOPAL CHURCH	ARHP	1384 OLD HIGHWAY 64	CRAWFORDSVILLE

NRHP: National Register of Historic Places

ARHP: Arkansas Register of Historic Places

SOURCE: <http://www.arkansaspreservation.com/historic-properties/default.aspx> (accessed on 5/10/18)

2.2 ARCHAEOLOGICAL RESOURCES

AECOM requested that a Section 106 Review be completed by the AHPP concerning the proposed I-40 Mega Site (AHPP Tracking Number 101026). The AHPP replied on April 26, 2018 stating that a cultural resources survey be conducted for the entire area of potential effect (APE) for the undertaking (**Appendix A**). The AHPP also stated that the Cherokee Nation, the Chickasaw Nation, the Choctaw Nation of Oklahoma, the Osage Nation, the Quapaw Tribe of Oklahoma, and the Shawnee Tribe of Oklahoma have expressed interest in the area, and recommended that these Tribes be consulted in accordance with 36 CFR 800.2(c)(2).

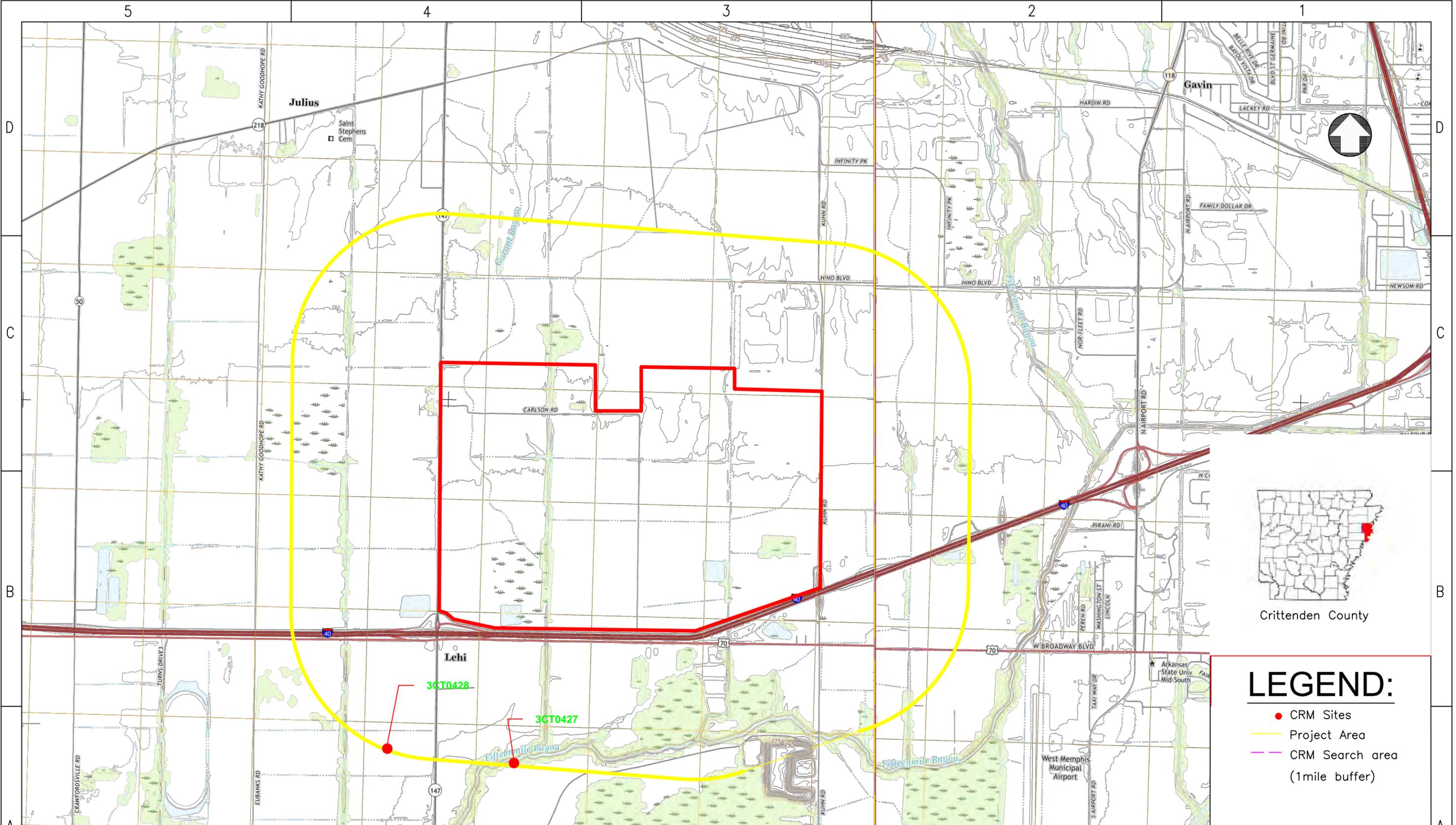
2.2.1 Background Research

Background research was conducted by reviewing Arkansas Archaeological Survey site forms, General Land Office maps (www.glorerecords.blm.gov), and the NRHP online database. The background Study Area encompassed a 1-mile buffer surrounding the Site. No NRHP properties, districts, archaeological sites, or cemeteries are recorded within the limits of the Site. However, two archaeological sites (3CT427 and 3CT428) are recorded within the 1-mile (1.6-km) buffer (Study Area), and are located to the south of the Site (**Figure 2**). Both are historic period artifact scatters located near Fifteenmile Bayou.

Site 3CT427 was identified in 2009 by Panamerican Consultants, Inc. as part of an intensive cultural resources survey with testing associated with 10 and 15-Mile Bayous. This site is located approximately 0.75 miles south of the I-40 Mega Site and is comprised of a mid-twentieth century tenant habitation and artifact scatter. It contains a low-density scatter of bottle glass, whiteware and stoneware ceramics, plastic, and three brick fragments and is located in a flat, plowed field next to Fifteenmile Bayou and a lateral ditch. Ground surface visibility was estimated to be poor (0 to 25 percent). The site is positioned within the Sharkey silt clay soil and measures approximately 0.18 acres in extent. Subsurface testing included the excavation of five shovel tests in a 10-m grid; all were negative for cultural materials. No structures were identified. The site was found to have been repeatedly plowed and heavily impacted.

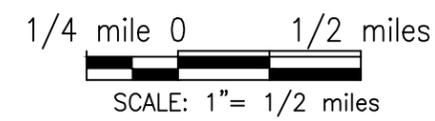
Site 3CT428 was identified in 2009 by Panamerican Consultants, Inc. as part of an intensive cultural resources survey and testing associated with 10 and 15-Mile Bayous. This site is located approximately 0.65 miles south of the perimeter of the I-40 Mega Site. 3CT428 is comprised of a high-density scatter and pile of bricks and brick fragments, mortar, and concrete on and around the mounded remains of a historic house. Stoneware, whiteware, and ironstone ceramics, along with clear bottle, brown, aqua, green, and milk glass are present. Also, there is a scatter of coal, wood, and bone, as well as nails and screws. It is estimated that over 1,000 artifacts are present. The site is located in a flat, plowed field north of Fifteenmile Bayou and a lateral ditch. Ground surface visibility during the time of the survey was estimated to be excellent (76 to 100 percent). The site is positioned within the Sharkey silt clay soil and measures approximately 0.72 acres in extent. Subsurface testing included the excavation of seven shovel tests in a 10-m grid; six were positive and one was negative for cultural materials. While field evidence suggests a structure was once present at this site, no standing structures remain. The site area was found to have been repeatedly plowed and heavily impacted.

A review was conducted from available online resources, such as the General Land Office maps (www.glorerecords.blm.gov). The plat maps for 1823 and 1838 show no evidence of structures or improvements within the Sections 5, 6, 7 or 8, Township 6N, Range 8E. A review of historic topographic maps from 1993, 1981, 1954-1955, and 1939 for the project area indicates that numerous standing structures once stood inside the boundaries of the Site, particularly in the vicinity of the communities of Lehi, Reynold Grove near U.S. 70, and along Garant Bayou (**Appendix B**). Recent aerial imagery and current topographic maps indicate that most of these structures are no longer standing. Notably, the Reynold Grove church is shown on 1939 topographic maps inside the boundaries of the Site; however, this structure does not appear on later maps or on aerial images.



LEGEND:

- CRM Sites
- Project Area
- CRM Search area (1mile buffer)



I-40 Mega Site
Marion Arkansas



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SCALE: AS NOTED	DRAWN BY: JB	DATE: 05-08-18
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Cultural Resource
Study Area
Recorded Archaeological Sites
May 2018

FIG.#: 2	JOB FILE#:
REV.#:	CAD FILE#:
PROJ.#:	FIGURE 2

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2.2.1 Natural Setting and Soils

The Study Area is located within the Mississippi Alluvial Valley ecoregion, specifically the Northern Holocene Meander Belts (Woods et al. 2004). The Northern Holocene Meander Belts are comprised of a nearly flat to flat floodplain that contains the extinct and present course of the Mississippi River, including natural levees, meander scars, oxbow lakes, point bars, and swales. In general, the soils along the natural levee deposits are well-drained and form slightly elevated landforms within the floodplain; the landscapes associated with the back slope, point bars, and swales progress from somewhat poorly drained to poorly drained soils. Natural levee deposits are typically the most elevated, driest, and arable sections of the river valley and served agricultural and residential purposes, both prehistorically and historically. The floodplain has been protected from flooding by the extensive levee system; this has facilitated widespread wetland draining and clearing of bottomland hardwoods for corn, cotton, rice sorghum, soybean, and wheat cultivation.

Seven soil mapping units representing five soil series were identified within the Site and they have been grouped into the following three (3) general categories (**Table 2; Figure 3**):

- 1) Natural Levees/Low Terraces (19.6%) – Dundee and Forestdale - **High** archaeological potential;
- 2) Backswamps and Sloughs (3.7%) – Alligator – **Low** archaeological potential; and,
- 3) Floodplain/Low Terraces (76.7%) – Sharkey and Tunica soils; water - **Low** archaeological potential.

Table 2. Soils within the I-40 Mega Site

Soil Name/Map Symbol	Landform	Drainage	Acres	Percentage	Potential
Dundee silt loam, 0 to 1 percent slopes (DuA)	Natural Levee / Low Terrace	Somewhat Poorly	235.8	13.1	High
Forestdale silty clay loam (Fo)	Natural Levee / Low Terrace	Poorly	84.6	4.7	High
Tunica clay, 0 to 1 percent slopes (TnA)	Floodplain	Poorly	12.6	0.7	Low
Alligator silty clay, 0 to 1 percent slopes (AIA)	Backswamps / Sloughs	Poorly	66.6	3.7	Low
Sharkey silty clay, 0 to 1 percent slopes, protected (ShA)	Floodplain / Low Terrace	Very Poorly	1330.2	73.9	Low
Sharkey silty clay, gently undulating (ShU)	Floodplain / Low Terrace	Very Poorly	21.6	1.2	Low
Dundee silt loam, 0 to 1 percent slopes (DsU)	Natural Levee / Low Terrace	Somewhat Poorly	32.4	1.8	High
Water (W)	N/A	N/A	16.2	0.9	Low
		Total	1,800	100.00%	

The natural levee deposits of the Dundee and Forestdale soils, representing approximately 353 acres (143 ha), are considered to display high archaeological site potential. The remainder of the property (ca. 1,447 acres [586 ha]), comprised of the remaining Sharkey soils, as well as the Alligator, Tunica soils, and areas mapped as water, should be considered to display low archaeological site potential. Because prehistoric archaeological sites have been identified immediately adjacent to drainages within the Sharkey silty clay, it would appear that the narrow natural levees associated with these drainages should also be considered to display higher archaeological potential. In general, this would be an approximately 130 to 200 ft (40 to 60 m) wide buffer adjacent to these extinct and current drainages. Within the Study Area, this would include areas adjacent to Garant Bayou, which runs north-south through the Site.



Legend

Site Boundary

NRCS Soil Type

- AIA
- DsU
- DuA
- Fo
- ShA
- ShU
- TnA
- W



Crittenden County



I-40 Mega Site
Marion Arkansas



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Cultural Resource
Study Area
Soils
May 2018

FIG.#: 2	JOB FILE#:
REV.#:	CAD FILE#: FIGURE 3
PROJ.#:	

SCALE: AS NOTED	DRAWN BY: JB	DATE: 05-08-18
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A

3.0 PLACES OF WORSHIP

Places of worship are often cultural centers for communities. Three places of worship are located within the Study Area. These include the Jackson Chapel, New Lehi Church, and Reynold Grove Church (see **Figure 1; Appendix B**).

Jackson Chapel: Appears as early as 1939 the topographic map, and on a 1963 aerial photograph. The structure also appears on the 1993 topographic map, but not on later maps. Current aerial photographs indicate that the structure is no longer extant. The church was located within the Study Area approximately 0.65 miles to north of Site.

New Lehi Church: Located within the Study Area, just outside western boundary of the Site. The church structure is still standing, and first appeared on topographic maps by 1955 (www.historicaerials.com). Unidentified structures in this area, as seen on 1939 topographic maps, might also represent this structure, but it was not possible to determine based on currently available data. Given on the proximity of the church to the project, and its historic age, which is well over 50 years old, a review by an architectural historian may be necessary to assess the eligibility of this structure for listing in the National Register of Historic Places.

Reynold Grove Church: Appears on a 1939 topographic map, but not on later maps. The church was located inside the boundaries of the Site, but appears to be no longer standing.

No known cemeteries are associated with these churches. No relocations are anticipated under the build alternative.

4.0 RECREATIONAL RESOURCES

No recreational resources were identified within the Study Area.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the screening level cultural resources survey and site walk-over, not historic properties, historic districts, churches or cemeteries are located on the 1,800 acre project site. In addition, no known archaeological sites are present on the property and only two archaeological sites are located within one mile of the site, both to the south along Fifteen Mile Bayou.

Based upon the screening level cultural resources survey, the assessment of the geomorphology and soils with the project area, and correspondence with the AHPP, a cultural resources survey of the I-40 Mega Site is warranted prior to any developments. In addition, in accordance with AHPP recommendations, Tribal coordination should also be undertaken, as required by 36 CFR 800.2(c)(2).

6.0 LITERATURE/SOURCES CITED

“General Land Office.” Web.
<www.glorerecords.blm.gov>

“Geography”. *United States Census Bureau*. Web.
<www.census.gov/geo/maps-data/data/tiger.html>

“Historic Aerials.” Web.
<www.historicaerials.com>

"Historic Properties." *Arkansas Historic Preservation Program*. Web.
< www.arkansaspreservation.com/historic-properties/default.aspx>.

Appendix A
AHPP Coordination



THE DEPARTMENT OF ARKANSAS
HERITAGE

Asa Hutchinson
Governor

Stacy Hurst
Director

Arkansas Arts Council

Arkansas Natural
Heritage Commission

Arkansas State Archives

Delta Cultural Center

Historic Arkansas Museum

Mosaic Templars
Cultural Center

Old State House Museum

April 26, 2018

Mr. James Orr
AECOM
1000 Corporate Center Drive, Suite 250
Franklin, TN 37067

RE: Crittenden County – General
Section 106 Review – USDA-RD
Proposed Undertaking: Access Roads and Industrial Development
AHPP Tracking Number: 101026

Dear Mr. Orr:

The staff of the Arkansas Historic Preservation Program (AHPP) has reviewed the proposed undertaking referenced above.

Based on the information provided, we recommend that a cultural resources survey be conducted for the entire area of potential effect (APE) for this undertaking.

Tribes that have expressed an interest in the area include the Cherokee Nation (Ms. Elizabeth Toombs), the Chickasaw Nation (Ms. Karen Brunso), the Choctaw Nation of Oklahoma (Dr. Ian Thompson), the Osage Nation (Dr. Andrea Hunter), the Quapaw Tribe of Oklahoma (Mr. Everett Bandy), and the Shawnee Tribe of Oklahoma (Ms. Kim Jumper). We recommend that they be consulted in accordance with 36 CFR § 800.2 (c) (2).

Thank you for the opportunity to review this undertaking. Please refer to the AHPP Tracking Number listed above in all correspondence. If you have any questions, please call Zuzana Chovanec of my staff at 501-324-9270.
Sincerely,

Scott Kaufman
Director, AHPP

cc: Dr. Ann Early, Arkansas Archaeological Survey
Dr. Andrea Hunter, Osage Nation
Ms. Kimberly Hooks, USDA



ARKANSAS HISTORIC
PRESERVATION PROGRAM



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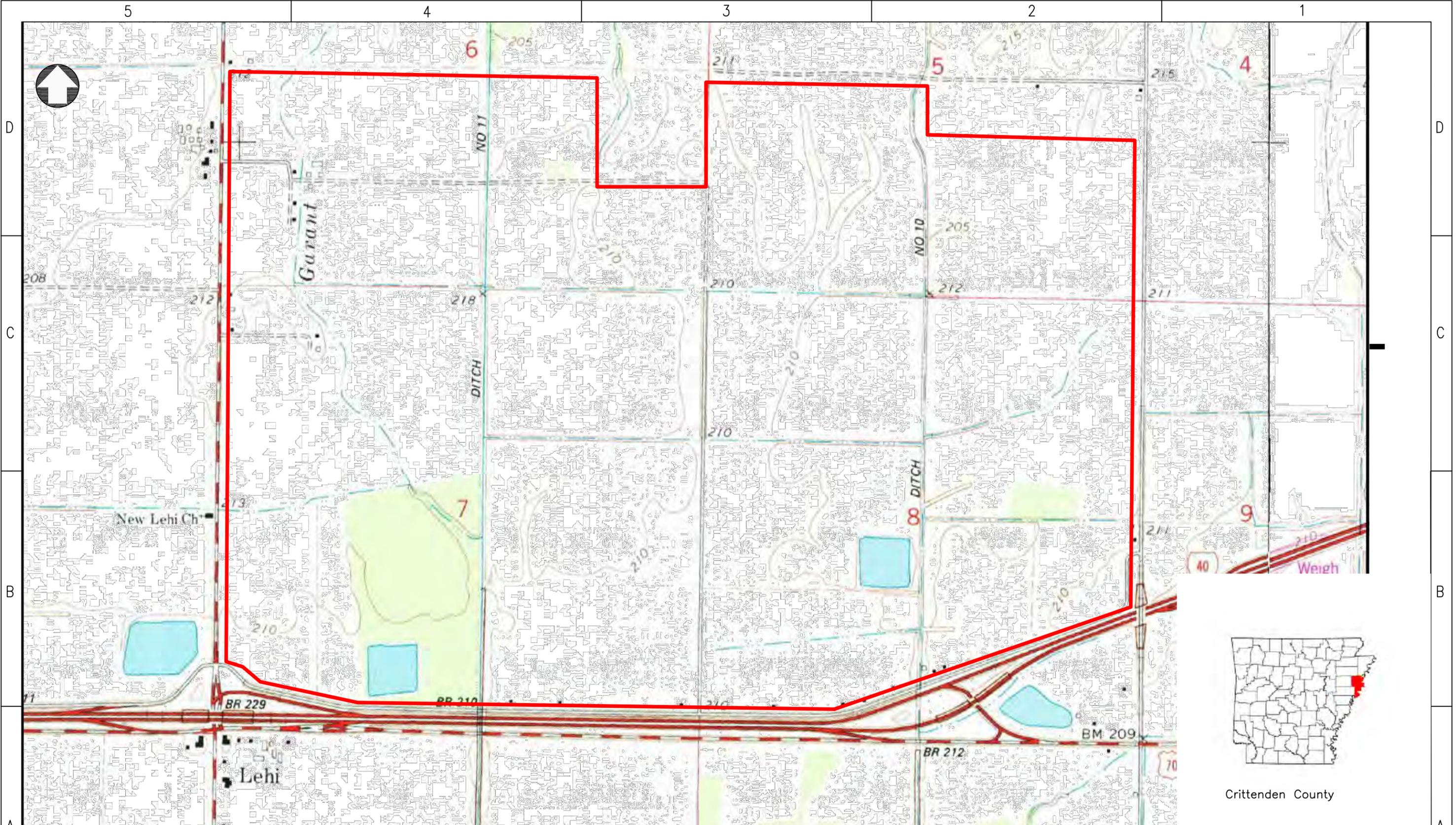
info@arkansaspreservation.org

website:

www.arkansaspreservation.com

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Appendix B
Historic Topographic Maps



528 feet 0 1056 feet
 SCALE: 1" = 1056 feet (1/5 mile)

I-40 Mega Site
 Marion Arkansas



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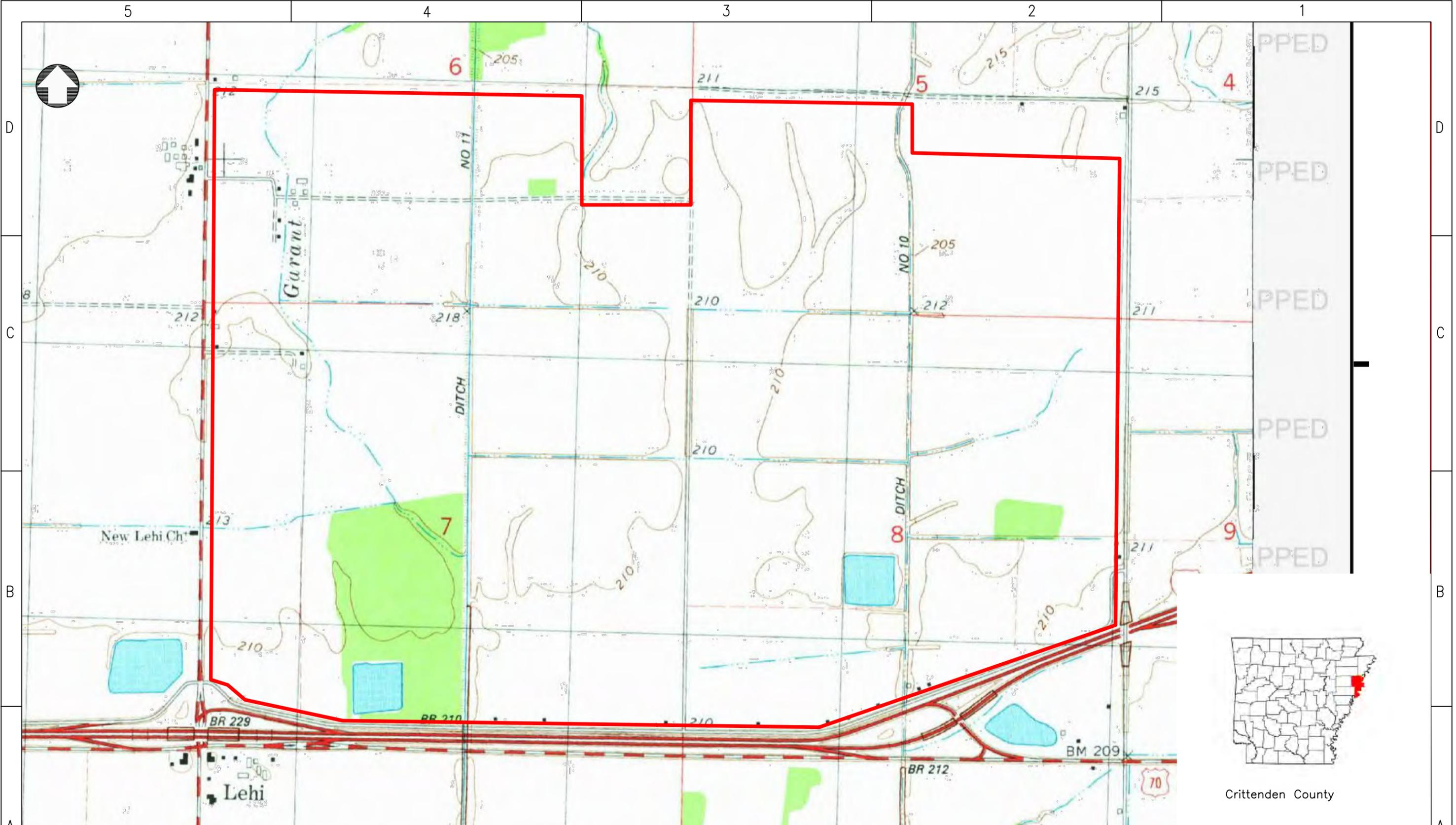
SCALE: AS NOTED	DRAWN BY: JB	DATE: 05-08-18
	CHKD BY: SH	DATE: 05-08-18

Cultural Resource
 Study Area
 Historical Topo
 7.5 minute Crawfordville & West
 Memphis 1993

FIG.#: 2	JOB FILE#:
REV.#:	CAD FILE#: FIGURE B-1
PROJ.#:	



Crittenden County



528 feet 0 1056 feet
 SCALE: 1" = 1056 feet (1/5 mile)

I-40 Mega Site
 Marion Arkansas



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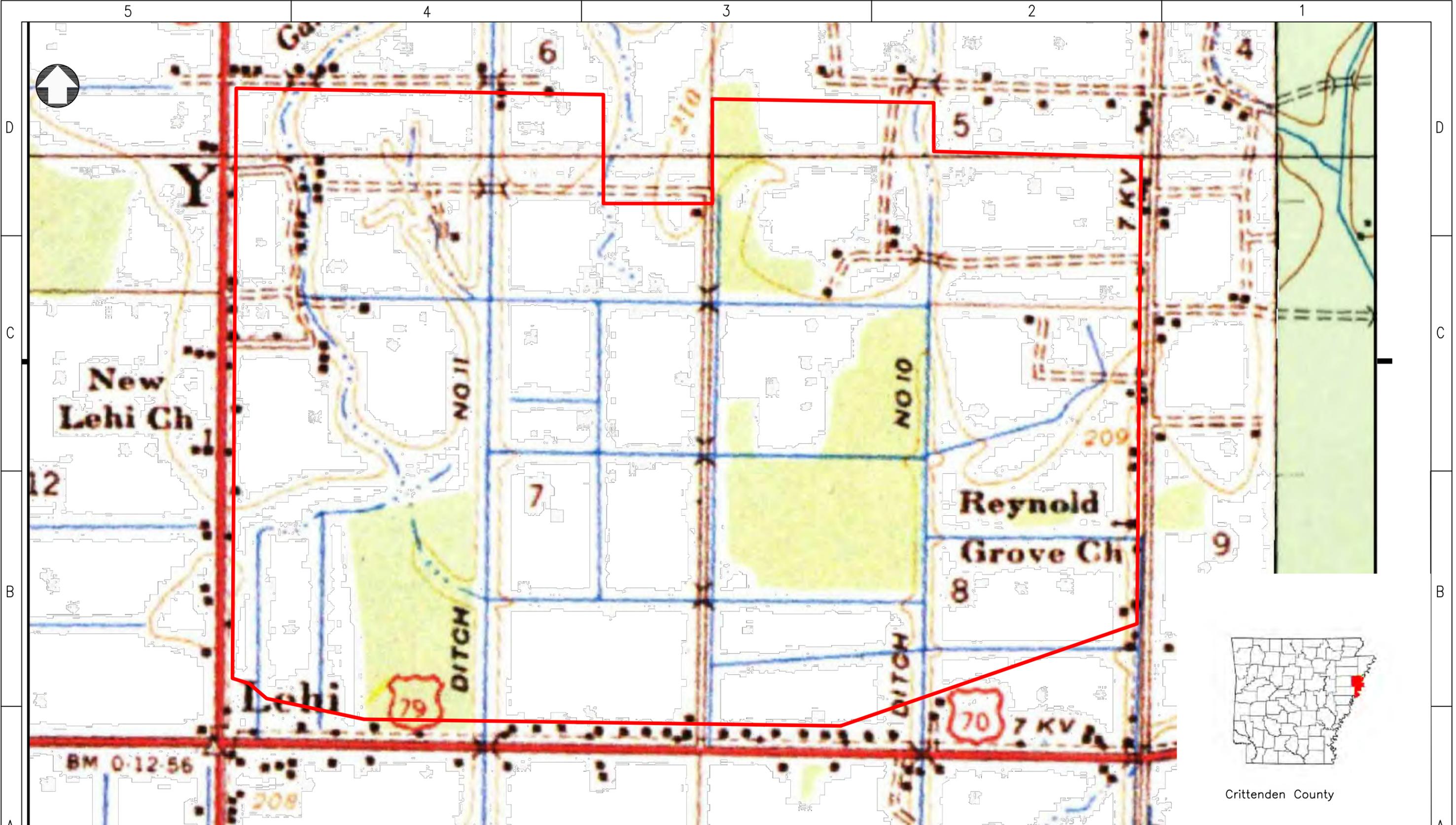
SCALE: AS NOTED	DRAWN BY: JB	DATE: 05-08-18
	CHKD BY: SH	DATE: 05-08-18

Cultural Resource
 Study Area
 Historical Topo
 7.5 minute Crawfordville & West
 Memphis 1981

FIG.#: 2	JOB FILE#:
REV.#:	CAD FILE#: FIGURE B-2
PROJ.#:	



Crittenden County



528 feet 0 1056 feet
 SCALE: 1" = 1056 feet (1/5 mile)

I-40 Mega Site
 Marion Arkansas



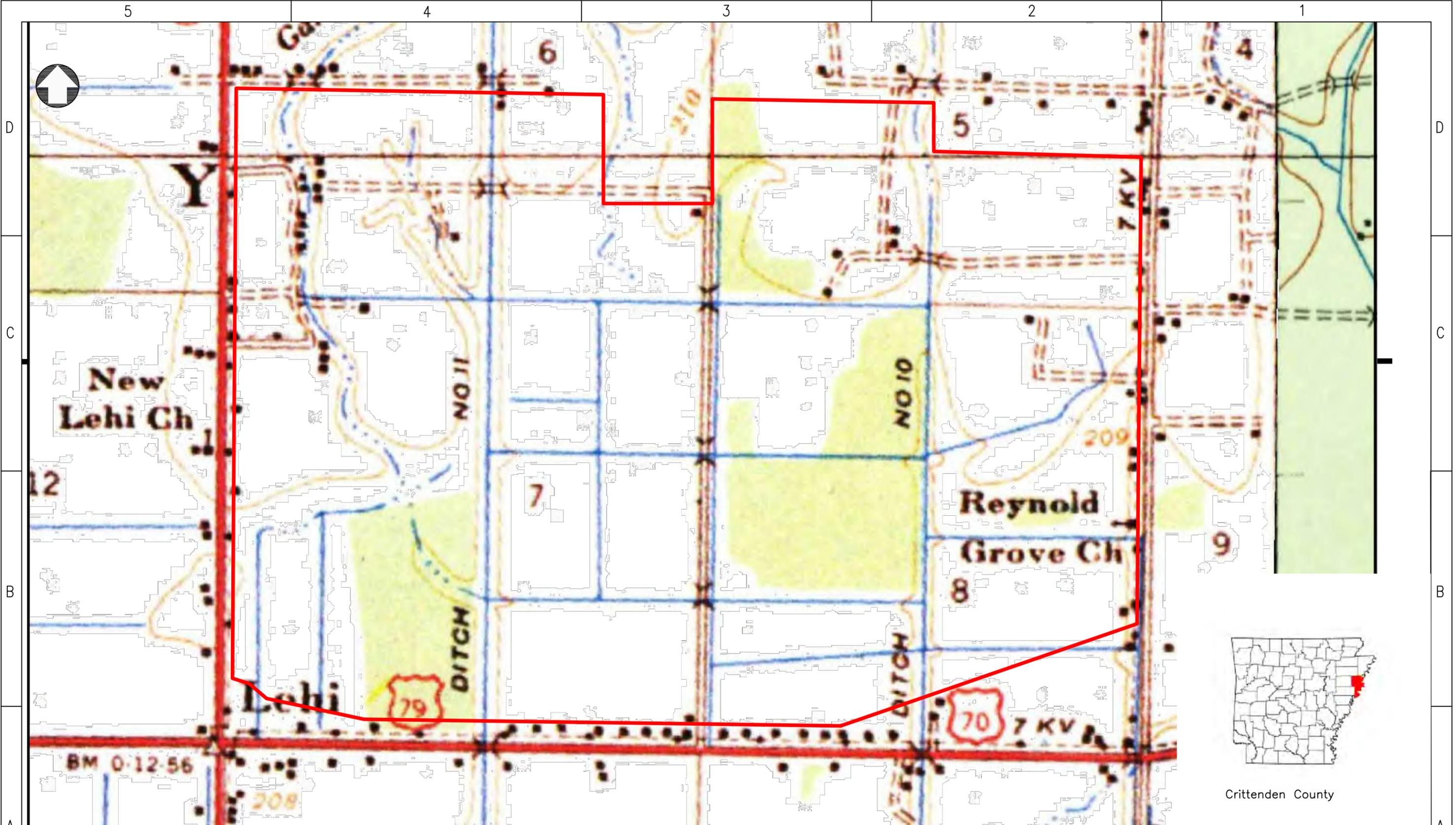
10801 Executive Center Drive,
 Suite 202
 Little Rock, AR 72211

SCALE: AS NOTED	DRAWN BY: JB	DATE: 05-08-18
	CHKD BY: SH	DATE: 05-08-18

Cultural Resource
 Study Area
 Historical Topo
 7.5 minute Crawfordsville & West
 Memphis 1954 1955

FIG.#: 2	JOB FILE#:
REV.#:	CAD FILE#: FIGURE B-4
PROJ.#:	

Crittenden County



Crittenden County

528 feet 0 1056 feet

 SCALE: 1" = 1056 feet (1/5 mile)

I-40 Mega Site
 Marion Arkansas



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 Suite 202
 Little Rock, AR 72211

SCALE: AS NOTED	DRAWN BY: JB	DATE: 05-08-18
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Cultural Resource
 Study Area
 Historical Topo
 7.5 minute Crawfordville & West
 Memphis 1939

FIG.#: 2	JOB FILE#:
REV.#:	CAD FILE#: FIGURE B-4
PROJ.#:	

FINAL REPORT

ENDANGERED SPECIES REPORT I-40 SITE CITY OF WEST MEMPHIS, AR



June 2018



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Introduction

AECOM was contracted by the City of West Memphis to conduct an environmental screening assessment of a tract of land located north of the City of West Memphis, Arkansas in an area proposed for an Industrial Park – The I-40 Site. The screening assessment included:

- Endangered Species Database Review and Site Habitat Review;
- Wetlands Delineation and Floodplain Mapping;
- Phase I Environmental Site Assessment (ESA), and
- Screening Level Cultural Resources Assessment.

The tract is located northwest of the City of West Memphis (Figure 1) and occupies approximately 1,800 acres. The property is bordered in the east side by Kuhn Road; to the west by State Highway 147; to the south by an access road then I-40 and to the north by agricultural property on the west and Hino Manufacturing Company on the east. Drainage on the property flows to the south via two engineered ditches, Ditch 11 on the west and Ditch 10 of the east. Ditch 11 was historically Garant Bayou. Drainage flows south to Ditch 15 also known as Fifteen Mile Bayou. The 100-year flood elevation is 210 feet above mean sea level (ft msl), Figure 2. Elevation on the site ranges from 197 (in the bottom of ditches) to 217 msl. None of the property is designated in the floodplain.

Regulatory databases, topographic mapping, aerial survey, soils, geology, and other information were reviewed as part of the screening process. Following review of the available literature, field investigations were conducted to confirm information provided in the literature.

The potential for wetlands on the property was reviewed by viewing the United States Fish and Wildlife Service (USFWS) Wetland Inventory Map (NWI) as shown on Figure 3. No wetlands were indicated on the property by the NWI. The National Resource Conservation Service (NRCS) website was utilized to determine the soil types present on the site as a potential indicator of hydric soils and wetlands, Figure 4.

Following review of these data a site study was conducted on April 17 and 18, 2018 by Mr. James R. Orr, biologist and certified wetland delineator with AECOM. Mr. James Orr served as senior biologist for the delineation and has over 25 years of experience with wetlands delineation, endangered species and site assessment.

The historic use of the property was reviewed to determine the potential for past activities to have influenced site conditions. The property has been in agricultural use for decades. These data plus the site inspection were utilized to make the determination of the environmental screening of the site.

Endangered Species

Endangered species were reviewed by accessing the United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) database online <https://ecos.fws.gov/ipac/location/index>. The site was outlined on the website and a list of endangered species and migratory birds was generated for the project area. A total of six endangered species and 13 migratory birds were listed in the database as potentially present in the project area. The endangered species are listed in Table 1. Endangered species were reviewed for the project site. In addition, the USFWS was contacted for a review of their most current data base. The IPaC database is included in Attachment 1. The database indicated that six protected species are known to occur in the area. These species include:

Least Tern (*Sternula antillarum athalassos*), Piping Plover (*Charadrius melodus*), pallid sturgeon (*Scaphyrhynchus albus*), pondberry (*Lindera melissifolia*), scaleshell (*Leptodea leptodon*), and fat pockbook (*Potamilus capax*). In additon, bald eagle (*Haliaeetus leucocephalus*) are know in the area.

During the site inspection, none of these species or their habitat were observed at or near the project site.

Table 1. Endangered Species Potentially Present at the I-40 Site.

Common Name	Scientific Name	Federal Status	Habitat	Potential Presence on Site
Piping Plover	<i>Charadrius melodus</i>	T	shorebird that nests and feeds along coastal sand and gravel beaches	Not Likely
Pallid Sturgeon	<i>Scaphirhynchus albus</i>	E	Found in the MS River	No
Fat Pocketbook	<i>Potamilus capax</i>	E	Found in the MS River	No
Rabbitsfoot	<i>Quadrula cylindrica cylindrica</i>	T	Medium size rivers, not found in Crittendon Co.	No
Scaleshell mussel	<i>Leptodea leptodon</i>	E	medium-sized and large rivers with stable channels	No
Pondberry	<i>Lindera melissifolia</i>	E	Seasonally flooded habitat	Not Likely

T: threatened
E: endangered

In addition to the endangered species, 13 bird species were listed as potentially in the area. These include:

1. American Golden-plover, *Pluvialis dominica* – breeds elsewhere –not likely to be impacted;
2. Bald Eagle, *Haliaeetus leucocephalus*, - nesting and resting sites not available – not likely to be impacted;
3. Cerulean Warbler, *Dendroica cerulean*, - no connected habitat, not likely to be impacted;
4. Golden Eagle, *Aquila chrysaetos*, - breeds elsewhere, not likely to be impacted;
5. Kentucky Warbler, *Oporornis formosus*, - no connected habitat, not likely to be impacted;
6. Le Conte's Sparrow, *Ammodramus leconteii*, - breeds elsewhere, not likely to be impacted;
7. Lesser Yellowlegs, *Tringa flavipes*, - breeds elsewhere, not likely to be impacted;
8. Prothonotary Warbler, *Protonotaria citrea*, - no connected habitat, not likely to be impacted;
9. Red-headed Woodpecker, *Melanerpes erythrocephalus*, - very limited preferred habitat present, not likely to be impacted;
10. Rusty Blackbird, *Euphagus carolinus*, - breeds elsewhere, not likely to be impacted;
11. Semipalmated Sandpiper, *Calidris pusilla*, - breeds elsewhere, not likely to be impacted;
12. Wood Thrush, *Hylocichla mustelina*, - no preferred habitat, not likely to be impacted;
13. Yellow Rail, *Coturnicops noveboracensis*, - breeds elsewhere, not likely to be impacted;

Based on the review of the migratory birds in the IPaC database, there does not appear to be habitat present to support breeding areas for these species. In addition, there is only a limited area for foraging or resting of some of the bird species which might travel through the area. The proposed development of the site is not likely to negatively impact migratory birds.

The Arkansas Natural Heritage Commission (ANHC) website was reviewed for state listed species in Crittendon County. A total of 30 records were found, see Attachment 1. Of these, 13 are freshwater mussels, two beetles, three fish, three bats, two birds (previously mentioned) one salamander and three plants. The water bodies on the site are not likely to support any of the 16 aquatic species as most are listed in Crittendon County as residents of the Mississippi River. With most of the project area in agricultural use and disturbed for many years, most of the other species are not likely to be present or would find far more preferable habitat elsewhere.



AECOM has reviewed the FWS (IPaC) and Arkansas Game and Fish Commission websites. Federally threatened or endangered species listed for Crittendon County, Arkansas and on the FWS IPaC database are included below. All work is proposed to the west of, and will not impact the Mississippi River and the drainages on the property appeared to be too small to support any of the aquatic species. Therefore, aquatic species will not be directly impacted. The current land use in the area is agricultural. Critical habitat for other species is not expected to be impacted.

Bald Eagle (<i>Haliaeetus leucocephalus</i>)	BGEPA
Piping Plover (<i>Charadrius melodus</i>)	LE
Pallid Sturgeon (<i>Scaphirhynchus albus</i>)	LE
Fat Pocketbook (<i>Potamilus capax</i>)	LE
Scaleshell Mussel (<i>Leptodea leptodon</i>)	LE
Rabbitsfoot <i>Quadrula cylindrica cylindrica</i>	
Pondberry (<i>Lindera melissifolia</i>)	LE

In addition to the federally listed species, a number of migratory birds are listed on the IPaC database that may utilize the area. A number of these species may forage in habitat common to the project site (agricultural fields) on a temporary basis; however, nest habitat is limited on the site and the site is routinely disturbed through agricultural practices and is close to high traffic use on I-40 and state highway 147. Crittendon County is a very agricultural county with thousands of acres of high quality agricultural land. Any migratory birds that might utilize the project site would have nearly unlimited similar habitat in the surrounding area. Based on the lack of nesting habitat and unlimited similar foraging and resting habitat of the area, impacts to migratory birds are not anticipated.

We greatly appreciate your assistance with this project, your review and comments.

Regards,
AECOM

James R. Orr
Sr. Consulting Scientist

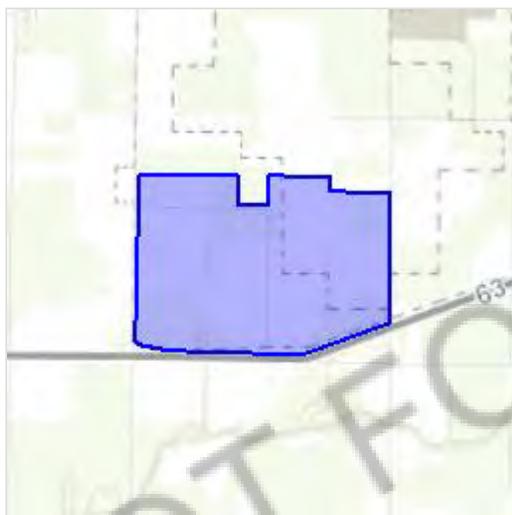
IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Crittenden County, Arkansas



Local office

Arkansas Ecological Services Field Office

☎ (501) 513-4470

📅 (501) 513-4480

110 South Amity Suite 300

Conway, AR 72032-8975

<http://www.fws.gov/arkansas-es>

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information.
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME	STATUS
Piping Plover <i>Charadrius melodus</i> There is final critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/6039	Threatened

Fishes

NAME	STATUS
Pallid Sturgeon <i>Scaphirhynchus albus</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/7162	Endangered

Clams

NAME	STATUS
Fat Pocketbook <i>Potamilus capax</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/2780	Endangered
Rabbitsfoot <i>Quadrula cylindrica cylindrica</i> There is final critical habitat for this species. Your location is outside the critical habitat. https://ecos.fws.gov/ecp/species/5165	Threatened

Scaleshell Mussel *Leptodea leptodon*

Endangered

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/5881>

Flowering Plants

NAME

STATUS

Pondberry *Lindera melissifolia*

Endangered

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/1279>

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

Yellow Rail *Coturnicops noveboracensis*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9476>

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (I)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) and/or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [E-bird Explore Data Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

Wildlife refuges and fish hatcheries

REFUGE AND FISH HATCHERY INFORMATION IS NOT AVAILABLE AT THIS TIME

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER FORESTED/SHRUB WETLAND

[PFO1A](#)

[PSS1A](#)

FRESHWATER POND

[PUBFh](#)

RIVERINE

[R2UBH](#)

[R5UBFx](#)

[R4SBC](#)

A full description for each wetland code can be found at the [National Wetlands Inventory website](#)

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

**PHASE I ENVIRONMENTAL SITE
ASSESSMENT
SURVEY REPORT
I-40 Mega Site
Kuhn Road and I-40
West Memphis AR**

April 2018

Prepared by

**AECOM
1000 Corporate Centre Dr.
Suite 250
Franklin TN 37067**

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FIGURES

Figure 1 Site Location

APPENDICES

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EXECUTIVE SUMMARY

AECOM Technical Services, Inc. (AECOM) was retained by the City of West Memphis Arkansas (City) to conduct a Phase I Environmental Site Assessment (ESA) of the 1,800 acre I-40 Mega Site located north of I-40 and west of Kuhn Road (subject property or site). The purpose of the Phase I ESA was to evaluate whether current or historical activities on or near the subject site may have resulted in significant impacts by hazardous substances or petroleum products, also known as recognized environmental conditions (RECs).

The Phase I ESA was performed in general conformance with the scope and limitations of ASTM Standard Practice Designation E 1527-13 for ESAs. The scope of work did not include the collection and analysis of samples including water, soil, paint, air, or asbestos-containing building materials.

The subject property is currently and historically been in use as agricultural fields of approximately 1,800 acres (Figure 1). There are farm houses and out buildings located at two locations. These were located in the northwest and southeast sections of the property. In addition there were six irrigation pumps and fuel tanks observed as well as one circular irrigation unit. The farm houses appeared to be occupied at the time of the survey but were not entered. The barns at the southeast residence were filled with farming material assumed to be used for a truck garden (a sign advertising tomatoes was at the site) and were cluttered and contained trash and other materials. The barn at the residence on the northwest corner was a metal Quonset hut style building with a concrete floor and containing only one duck blind. Property owners were contacted by the City for approval to inspect the properties. The site includes 10 property owners.

AECOM has chosen an appropriate level of effort consistent with ASTM International Standard E 1527-13 for evaluating the status of the property. Based on the scope of the assessment, no controlled recognized environmental conditions (CRECs), or historical recognized environmental conditions (HRECs) were identified for the subject property.

The assessment revealed the following three RECs in connection with this site.

1. Based on the approximate age of construction of the houses located on the property (pre-1978) asbestos containing materials, lead paint or other contaminants may be present and the structures are likely to have buried septic tanks. The location and condition of these tanks is unknown.
2. Fuel tanks and pumps have been in use on the property for many years. A total of six were observed during the time of the site visit. Those inspected closely did not appear to contain fuel and were not in use. The observed above ground storage tanks did not have secondary containment. Stained soil associated with fuel spillage was observed at one tank, but not all tanks were accessible due to access issues of muddy roads. The observed soil stained areas were limited to adjacent to the tanks.
3. A small residential dump site was discovered at the confluence of Ditch 11 and Drain 4. The site appeared to encompass an area approximately 30 feet x 40 feet. A substantial amount of glass bottles (mostly broken) tin cans, plastic containers, old farm equipment etc. was

observed at the dump site and in Ditch 11. The site is considered a REC due to the potential dumping of hazardous substances including farming related chemicals.

The site includes agricultural land, two-8 acre irrigation ponds, a two and seven acre wooded lot (the larger a wetland), two named Ditches; Ditch 11, also known as Garant Bayou, and Ditch 10. A number of field drains (6) flow to these main drains, which flow south to Ditch 12 south of I-40.

1. INTRODUCTION

1.1 Purpose

AECOM Technical Services, Inc. (AECOM) was retained by the City to conduct a Phase I Environmental Site Assessment (ESA) of the I-40 Mega Site. The acreage is 1,800 acres. The purpose of the Phase I ESA is to provide the City with information for use in evaluating recognized environmental conditions (RECs) associated with the subject property.

Per the American Society for Testing and Materials (ASTM) standard, potential findings can include RECs, including historical RECs (HRECs), controlled RECs (CRECs), and *de minimis* conditions. A REC is defined by the ASTM standard as “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.” The term includes hazardous substances or petroleum products even under conditions in compliance with laws. HRECs are a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls. CRECs are a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products permitted to remain in place subject to the implementation of required controls. *De minimus* conditions are those situations that do not present a material risk of harm to public health or the environment and generally would not be subject to enforcement action if brought to the attention of the regulating authority.

The assessment is based on a review of existing conditions, reported pre-existing conditions, and observed operations at the subject property and adjacent properties.

1.2 Detailed Scope of Services

The general scope of work for the Phase I ESA is outlined below. The Phase I ESA was completed for the City in general accordance with the proposal to the City dated April 6, 2018. AECOM performed the following work:

- Conducted an online data search with a national database (Environmental Data Resources [EDR]) to evaluate that potential for contamination at the site,
- Conducted a site walkover of the property to confirm any findings and make site observations related to waste disposal, underground storage tanks (USTs), and potential site contamination,

1.3 Significant Assumptions

No significant assumptions other than those described in the following section apply to the Phase I ESA.

1.4 Limitations and Exceptions

This report and the associated work have been provided in accordance with the principles and practices generally employed by the local environmental consulting profession. This is in lieu of all warranties, expressed or implied.

The Phase I ESA is not a regulatory compliance audit or an evaluation of the efficiency of the use of any hazardous materials at the subject site. No evaluation for the presence of urea-formaldehyde foam insulation or other hazardous building materials; methane; radon gas; lead in drinking water; cultural and historic resources; industrial hygiene and health and safety; ecological resources and endangered species; indoor air quality; or high voltage power lines is included in the Phase I ESA.

AECOM's findings are based on information available from public sources on specific dates (historical photographs, maps and regulatory agency files, lists, and databases); this information is changing continually and is frequently incomplete. Unless AECOM has actual knowledge to the contrary, information obtained from interviews or provided to AECOM by the City has been assumed to be correct and complete. AECOM does not assume any liability for information that has been misrepresented to us or for items not visible, accessible, or present on the subject site during the time of the site reconnaissance. AECOM assumes no obligation or responsibility for providing information that may become available after the completion of this report.

AECOM cannot warrant or guarantee that not finding indicators of hazardous materials means that hazardous materials do not exist on the subject site. There is no investigation thorough enough to preclude the presence of materials on the subject site, which presently, or in the future, may be considered hazardous. Because regulatory evaluation criteria are constantly changing, concentrations of contaminants present and considered to be acceptable may, in the future, become subject to different regulatory standards and require remediation.

Where records indicate that prior remedial work or tank removals have occurred there is the possibility that the work may not have been performed correctly or completely. In these cases, if the regulatory agency has approved the closure of the tank or other action, AECOM assumed that the work was done correctly and completely. Opinions and judgments expressed herein are based on AECOM's understanding and interpretation of current regulatory standards, and should not be construed as legal opinions.

1.5 Validity

This report was prepared in conformance with the ASTM Standard Practice Designation E 1527-13. The following components of this report must be updated after 180 days of the date of this report if the property has not been acquired within that period of time:

- Interviews with owners, operator, and occupants
- Reviews of federal, state, and local government records
- Visual inspection of the property and of adjoining properties
- Declaration of the environmental professional responsible for the assessment or update

1.6 Data Gaps

Historic aerial photographs or topographic maps were reviewed for long-term historic use of the subject property. The property does not appear to have experienced significant changes over the years. Known data gaps include:

- No knowledge of what is inside of the houses on the property, but they are small residential homes.
- No information on what is in the garbage and debris in the trash pile area near Ditch 11. Visual inspection revealed many glass bottles and metal containers, some plastic and durable goods (farm and household equipment) were also seen. See Appendix F.

2. SITE DESCRIPTION

2.1 Location and Legal Description

The site investigated consists of thirteen (13) parcels of land. The combined parcels are 1,800 acres that is in primarily agricultural or residential usage. The parcels are provided in Appendix A.

2.2 Site and Vicinity General Characteristics

The subject property consists of agricultural land north of I-40. The surrounding area is a mix of agricultural, residential, and industrial uses. The adjoining properties immediately to the north are agricultural and industrial. To the west and east is agricultural property with more industrial development to the east. To the south is I-40 with light industrial use and agriculture south of I-40.

2.3 Current Site Use

The site is currently in agricultural use, with the exception of the two residences. The one on the NW corner of the property appears to be associated with the agriculture use, with the one on the SE portion of the property may be a truck farm operation.

2.4 Current Adjoining Property Uses

North

The adjacent properties to the north are agriculture land and the Hino Automotive company is located on the NE section.

South

The property to the south is bordered by I-40 and 3-4 small light industrial companies also south of I-40. Most of the land south of I-40 is agricultural.

West

The property to the west is agricultural land with one small pump and pipe construction company located just north of I-40 (Hydroflo Pumps).

East

The property to the east is agricultural and contains one church.

3. USER-PROVIDED INFORMATION

The following inquiries are required to be conducted by the user.

- Identification of environmental cleanup liens against the subject property
- Specialized knowledge or experience regarding the subject property
- Commonly known or reasonably ascertainable information regarding the subject property
- Degree of obviousness of the presence or likely presence of contamination at the subject property

3.1 Environmental Liens or Activity and Use Limitations

AECOM has no knowledge of any environmental liens against the subject property. The City was unable to provide AECOM with any information about environmental liens and the topic was not addressed with any residents at the property.

3.2 Specialized Knowledge

The City and AECOM contacted the landowner. Approval was obtained to review the property. No specialized knowledge of the properties was provided to AECOM associated with the subject properties for inclusion in this report other than the names of the current property owners.

3.3 Commonly Known Information

The City has not provided AECOM with any commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases.

3.4 Obvious Indicators

The City has not provided AECOM with any knowledge or experience related to the property that would point to the presence or likely presence of contamination at the property.

4. ENVIRONMENTAL RECORD REVIEW

4.1 Standard Environmental Records

Environmental Data Resources, Inc. (EDR) prepared a regulatory database search report on April 16, 2018 in accordance with the ASTM recommended guidelines. The EDR Radius Map with GeoCheck® Report includes a complete list of databases reviewed by EDR and is presented in Appendix B. The EDR report presents the results of a search of databases compiled by federal, state, and local governmental agencies, along with a description of each database, that list addresses of sites of known USTs; landfills; hazardous waste generation, treatment, storage and disposal facilities; and known subsurface contamination in the surrounding area up to and within the ASTM designated search radii of the subject site.

No sites were identified in the EDR site review.

4.2 Physical Setting Sources

Elevation of the fields on the subject site ranges between 210 and 219 feet above mean sea level based on National Geodetic Vertical Datum. Ditch range up to 10 feet deep. The subject property is slightly sloped from north to south. Water runs onto the site from the east, west and north.

Site-specific soils information was identified on the National Resources Conservation Service web soil survey website during the course of the assessment. According to the soils database, the subject property is underlain primarily by seven soil types and water: Sharkey silty clay, 0 to 1 percent slopes, protected (74%,) Dundee silt loam, 0 to 1 percent slopes (13%), and less than 5 % each of five other soil types. All of these soils have slow infiltration rates and are well drained. These soils are described as fine-grained soils down to depth of approximately 80 inches. These soils are classified as non-hydric (not supporting wetlands).

According to geologic information provided in the environmental database report, the bedrock geology of the subject property is of the Cenozoic era, Quaternary system, Holocene Series.

If shallow groundwater flow mimics surface topography, it appears that the general direction of shallow groundwater flow at the site will be to the north to south towards Ditch 12.

AECOM reviewed wetlands information provided by the U.S. Fish and Wildlife Service's National Wetlands Inventory (NWI) on the EDR Radius Map Report. There five federal mapped wetlands located on the subject property. These features were assessed by a wetlands professional with findings provided in a separate wetlands report.

4.3 Historical Use Information on the Subject Site and Adjoining Property

4.3.1 Historical Aerial Photographs

AECOM obtained aerial photographs (Appendix C) dated 1963, 1975, 1985, 1994, 2006, 2010 and 2015. These maps indicate that the sites have undergone very few changes since 1963. The irrigation ponds and wooded areas date back to 1963 as well as a larger wooded area around

Pond 1 on the southwest corner. This wooded area was designated as a wetland on the NWI map. The wooded area around Pond 1 was removed prior to 1994 and the lands were engineer graded for better crop production. Between 1994 and 2006 the development of the Hino Facility was underway and appears to be complete by 2010.

No potential RECs were identified during the aerial maps review.

4.3.2 Historic Topographic Maps

AECOM obtained historical topographical maps (**Appendix D**) dated 1939, 1954-1955, 1981, 1993, and 2014. These maps indicate the sites have undergone minimal geological change. Prior to 1981, I-40 was State Highway 70. During 1954, a number of houses were present on the north side of highway 70 which no longer exist. In 1954 many more drainage ditches are present compared to 1939. From 1981 to 2014 there is little change other than the removal of the wooded area on the southwest portion of the property sometime after 1993.

No potential RECs were identified during the topographic map review.

4.3.3 Previous Investigations

No previous investigations have been conducted at the subject properties and the City did not provide any other previous environmental assessments (investigations) for AECOM's review.

5. SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

AECOM conducted the site reconnaissance on April 17-18, 2018. No property owner accompanied the AECOM representative, James Orr, during the site reconnaissance. James met with City personnel prior to the site visit and received instructions on site access and property owners. Weather conditions at the time were partly cloudy with a temperature of approximately 70° Fahrenheit. Approximately 3 inches had fallen four days prior to the visit and many of the roads were muddy or inundated. Photographs taken during the site reconnaissance are presented in **Appendix D**.

5.2 General Site Setting

The adjacent properties consist of residential plots, agricultural tracts and some recent industrial development. The subject site consists almost entirely of agricultural land. The forested areas were primarily hardwood forest with hackberry, ash, red maple, oak and hickory with honeysuckle undergrowth.

5.3 Interior and Exterior Observations

None of the homes were entered. Barns and out buildings were either empty or contained farm related material, cinder blocks, lumber, wood chips, boxes etc. The one larger barn on the northwest contained a mobile duck blind only.

5.3.1 Hazardous Substances and Petroleum Products

AECOM observed six aboveground storage tanks (ASTs) used to fuel irrigation pumps or other equipment. These tanks were approximately 500 to 1,000 gallon tanks and contained no secondary containment. Fuel stains were noted at one of the tanks on the northeast corner, most tanks were only visible from a distance due to muddy roads.

It is AECOM's opinion that management of hazardous substances, specifically fuel storage tanks, at the subject property is a REC.

5.3.2 Storage Tanks

Visible evidence of USTs (i.e., vent pipes or fill-ports) was not observed during AECOM' site reconnaissance.

5.3.3 Odors

No hazardous waste or petroleum odors were detected during the site inspection other than the one area of fuel spillage near the one fuel tank.

5.3.4 Pools of Liquid

No pools of liquid were observed on the subject site.

5.3.5 Drums and Containers

No drums or containers were observed during the site reconnaissance.

5.3.6 Unidentified Substance Containers

Many unidentified substance containers were observed during the site reconnaissance in the trash pile at Ditch 11 and Drain 4. Most of the materials appeared to be household bottles and jars.

It is AECOM's opinion that the unidentified substance containers is a REC.

5.3.7 PCB-Containing Equipment

No PCB-containing equipment was located on the subject site. A number of new pole-mounted transformers were observed along the road, but none on the property.

5.3.8 Emergency Generators

The sites did not maintain emergency generators.

5.3.9 Pits, Ponds, And Lagoons

The site contains two ponds used for irrigation. They were approximately 7-8 acres in size.

It is AECOM's opinion that the ponds do not represent a potential REC.

5.3.10 Stained Soil or Pavement

No areas of stained gravel or pavement were observed during the site reconnaissance other than the previously mentioned stained soil near one of the fuel tanks.

5.3.11 Stressed Vegetation

No stressed vegetation was detected during site investigation other than vegetation sprayed around utilities.

5.3.12 Solid Waste

Solid waste does not appear to be generated at the site; however, dumping of household solid waste at the subject site had occurred.

5.3.13 Wastewater and Storm Water

No wastewater or stormwater discharges were observed at the site.

5.3.14 Wells

No drinking water wells were observed at the site or reported in the EDR database. Six irrigation wells were observed during the site visit, while 12 are located within a one-mile radius of the center of the property. 10 of these wells appear to be located on the property. Some may be abandoned, but eight wells are identified in the EDR database as new wells. Most well range in depth from 110 to 140 feet. .

5.3.15 Septic Systems

It is expected that septic tanks are present at the current residential properties.

5.3.16 Heating or Cooling

Heating, ventilation, and air conditioning units were observed at the residential properties during the site reconnaissance.

It is AECOM's opinion that heating and cooling do not represent a potential REC to the subject property.

5.3.17 Stains or Corrosion

No visible evidence of stained surfaces was observed during the site reconnaissance. Corrosion was limited to old cans, car parts, property fences, and roofing tin on site structures.

5.3.18 Drains and Sumps

Evidence of drains was observed during the site reconnaissance at a number of locations throughout the property. Surface contamination was not observed.

5.3.19 Presumed Asbestos-Containing Materials and lead based paint.

No asbestos or asbestos-containing materials (ACMs) or lead based paint were observed during the site reconnaissance. However, based on the approximate ages of the houses and farm buildings on site; ACM and lead based paint may be present. Residents were not interviewed. The oldest house on the property appeared to be over 50 years old. Structures were either wood siding with tin roof, wood with shingle roof or tin with tin roof. No Asbestos shingles were observed.

It is AECOM's opinion that presumed ACMs and lead based paint is a REC if buildings are to be removed.

5.4 Adjacent Facility Observations

No industrial facilities are immediately adjacent to the sites other than the Hydroflo Pumps company on the southeast and Hino on the northeast. An industrial Park is located over 1 mile to the north. One church is located on Highway 147 to the west of the property.

It is AECOM's opinion that adjacent facilities do not represent a potential environmental concern to the subject property.

6. CONCLUSIONS

AECOM has developed and performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 for the I-40 Mega Site. Any exceptions to, or deletions from, this practice are described in the limitations sections of this report.

6.1 Findings

The assessment revealed a number of potential RECs that fit into three categories in connection with the subject sites. These include:

- Fuel stained soil next to one of the fuel storage tanks.
- Unclassified solid waste in a trash pile next to Ditch 11 and Drain 4.
- Potential for lead-based paint and ACM from the demolition of old houses and buildings.

6.2 Deviations

No deviations occurred from the Scope of Services for the Phase I ESA.

7. REFERENCES

ASTM, 2013. American Society for Testing and Materials (ASTM). Standard E Section, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," November 2013.

USEPA, 2014. United States Environmental Protection Agency (USEPA). 40 CFR Part 312 "Standards and Practices for All Appropriate Inquiries," February 2014.

8. SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in ASTM E 1527-13 and CFR 312.

This report was prepared by:

AECOM Technical Services, Inc.

Jim Orr, Tennessee QHP

Project Manager

Craig Bernhoft, CHMM, PG

Project Quality Assurance Manager

9. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

This section includes qualification statements of the environmental professionals responsible for conducting the ESA and preparing this report.

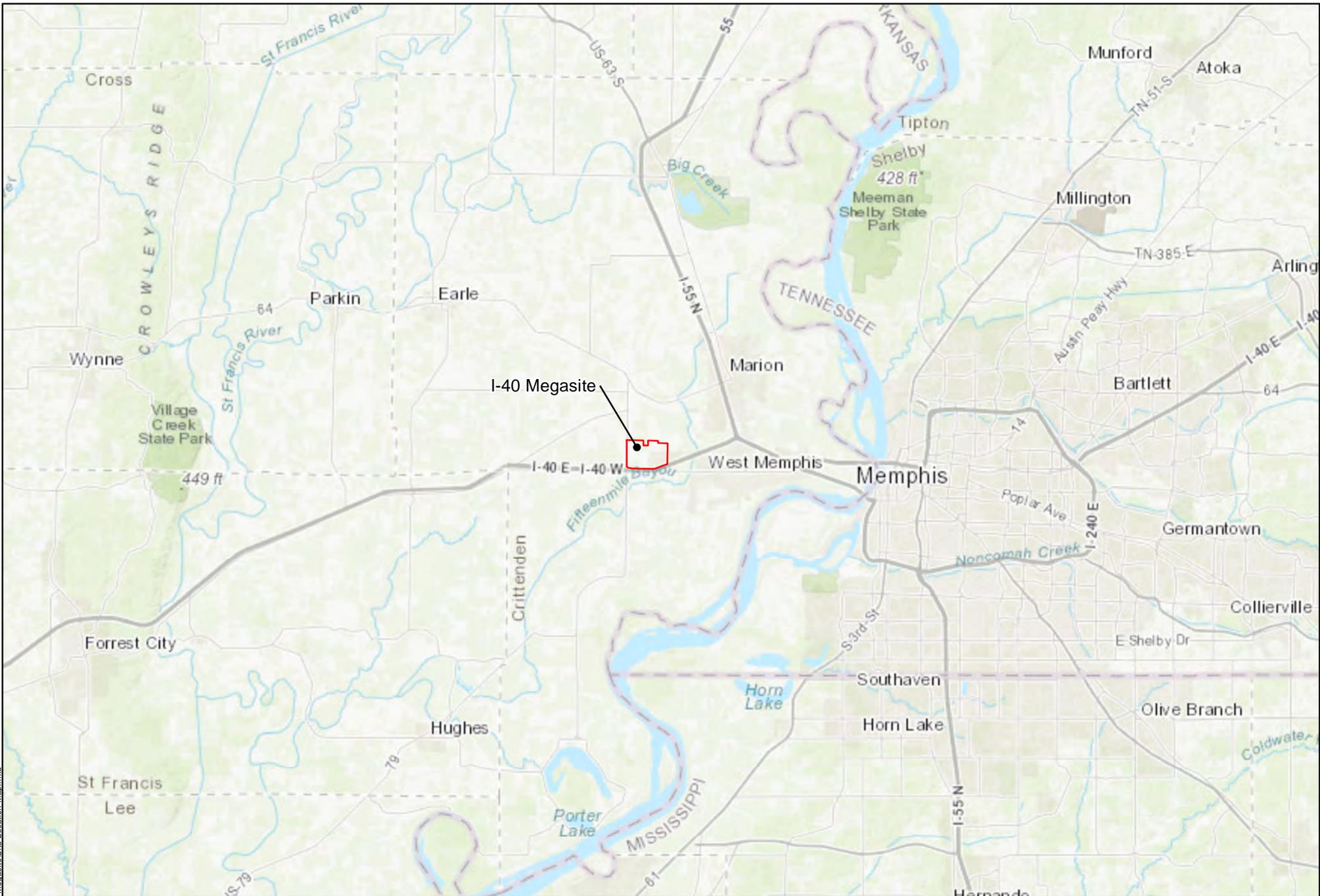
Mr. Jim Orr reviewed this report. Mr. Orr has over 30 years of experience in the environmental field and 19 years with AECOM. Mr. Orr also has extensive experience as a Project Manager for Phase I ESAs and remedial investigations for law firms, commercial and industrial clients, and financial institutions throughout the United States for both single site and multi-site portfolios.

Mr. Craig Bernhoft performed the independent technical review of the report. Mr. Bernhoft has over 25 years of experience with Phase I ESAs and remedial investigations.

10. NOMENCLATURE LIST

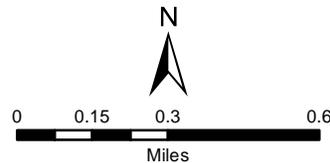
ACBM	Asbestos-Containing Building Material
ACM	Asbestos-Containing Material
AECOM	AECOM Technical Services, Inc.
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
CFR	Code of Federal Regulations
CREC	Controlled Recognized Environmental Condition
EDR	Environmental Data Resources
ESA	Environmental Site Assessment
HREC	Historical Recognized Environmental Condition
NWI	National Wetlands Inventory
PCB	Polychlorinated Biphenyls
REC	Recognized Environmental Condition
UST	Underground Storage Tank

FIGURES



T:\GIS\Franklin_Work\Ornl-I-40 MegaSite\Site Location_Map.mxd

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



FILE NUMBER
DESIGNED BY MBE
DRAWN BY MBE
CHECKED BY


 1000 Corporate Centre Dr
 Suite 250
 Franklin, TN 37067

I-40 Mega Site
Site Location
 Marion, Arkansas, 72364

PROJECT NUMBER 60572497
DATE April, 2018
FIGURE NUMBER 1

Appendix A
Property Ownership Map

EXHIBIT A

Marion/West Memphis Site

PARCEL BY OWNER MAP

- █ Interstate Highways
- Acreage OWNERS**
- 20 █ BOLLINGER BROS INC
- 283 █ BOLLINGER FREDDIE N ETAL
- 10 █ CROSS AUBREY
- 317.06 █ HARDIN PARTNERSHIP LP
- 280.93 █ KYZAR PARTNERSHIP LP
- 367.19 █ NADEAU PARTNERSHIP LP
- 160 █ PIRANI-EAST PROPERTIES
- 38.50 █ RIEVES FAMILY LLC
- 196 █ WALLACE CO LLC
- 640 █ WOODLAND LLC



Appendix B
REGULATORY DATABASE SEARCH REPORT

I-40 Megasite

Interstate 40 and Arkansas State Highway 147
Marion, AR 72364

Inquiry Number: 5260370.2s
April 16, 2018

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

INTERSTATE 40 AND ARKANSAS STATE HIGHWAY 147
MARION, AR 72364

COORDINATES

Latitude (North): 35.1597190 - 35° 9' 34.98"
Longitude (West): 90.2738840 - 90° 16' 25.98"
Universal Transverse Mercator: Zone 15
UTM X (Meters): 748315.8
UTM Y (Meters): 3893960.8
Elevation: 210 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 6064031 CRAWFORDSVILLE, AR
Version Date: 2014

East Map: 6064059 WEST MEMPHIS, AR
Version Date: 2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20150803
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
INTERSTATE 40 AND ARKANSAS STATE HIGHWAY 147
MARION, AR 72364

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
--------	-----------	---------	-------------------	--------------------	----------------------------

NO MAPPED SITES FOUND

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

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

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List

EXECUTIVE SUMMARY

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

SHWS..... Hazardous Substance Remedial Action Trust Fund Priority List

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

SWF/LF..... Solid Waste Facility Permit Database

SWID..... Solid Waste Illegal Dumps Database

State and tribal leaking storage tank lists

LTANKS..... Leaking Storage Tank Location Listing

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

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

UST..... Underground Storage Tank Data

AST..... Aboveground Tank Database

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Engineering Controls Sites Listing

INST CONTROL..... Institutional Control/Land Use Restriction Sites

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

VCP..... Voluntary Cleanup Program Sites

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Projects

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY..... Recycling Directory

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

ODI..... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

IHS OPEN DUMPS..... Open Dumps on Indian Land

EXECUTIVE SUMMARY

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
CDL..... Methamphetamine Contaminated Properties Listing
US CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Emergency Response Incidents
SPILLS 90..... SPILLS 90 data from FirstSearch
SPILLS 80..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
ABANDONED MINES..... Abandoned Mines
FINDS..... Facility Index System/Facility Registry System
UXO..... Unexploded Ordnance Sites

EXECUTIVE SUMMARY

DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
ECHO.....	Enforcement & Compliance History Information
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
AIRS.....	Permitted Facility Emission & Stack Data
ASBESTOS.....	Asbestos Notification of Intent Database
COAL ASH.....	Coal Ash Disposal Site Listing
ENF.....	Consent Administrative Order, Notice of Violation Information Database
Financial Assurance.....	Financial Assurance Information Listing
PERMITS.....	Permit Data System
AR Sludge.....	Poultry Sludge Permit Sites
TIER 2.....	Tier 2 Information Listing
UIC.....	Underground Injection Wells Database Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

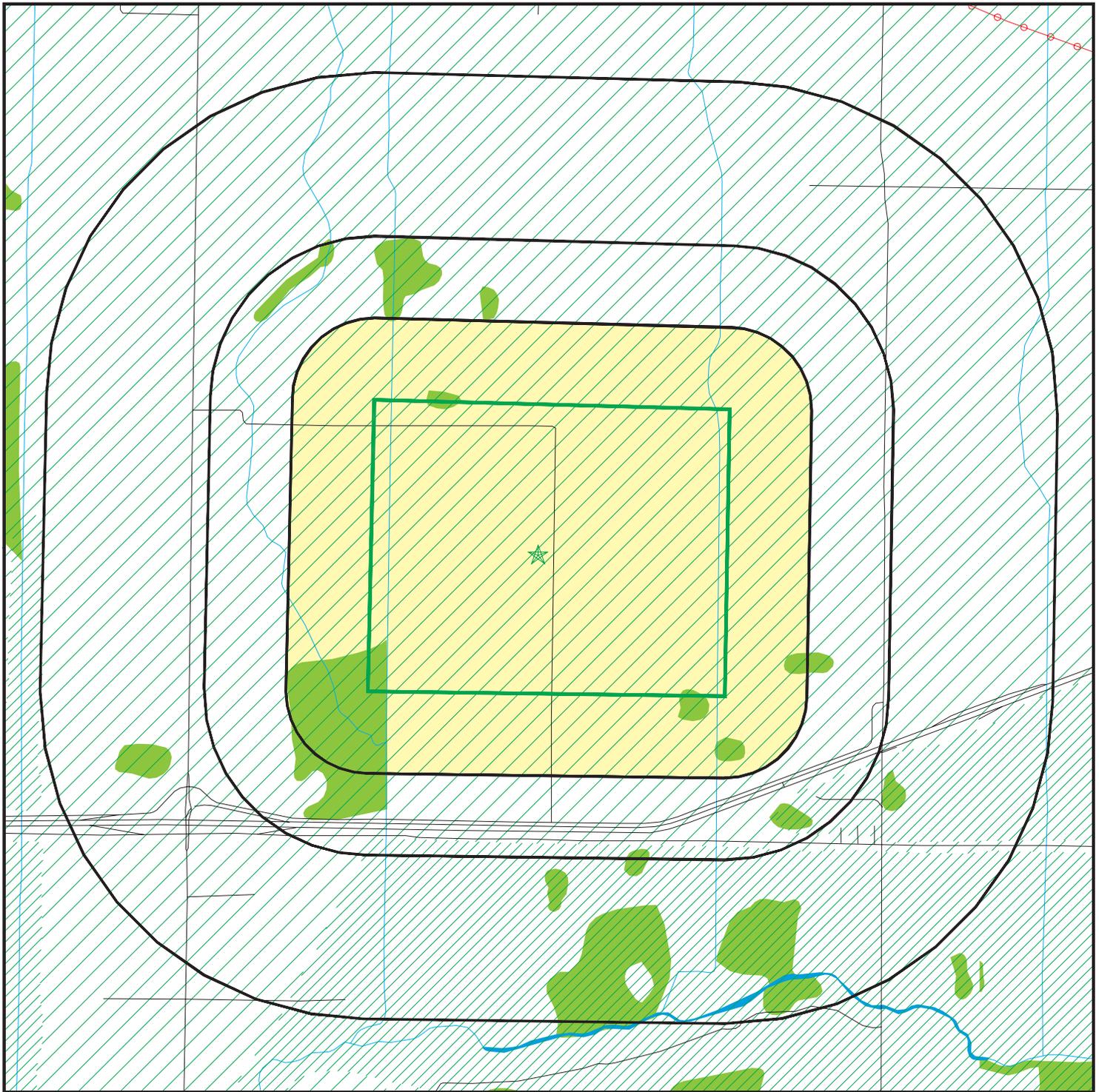
Surrounding sites were not identified.

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

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5260370.2S



 Target Property

 Sites at elevations higher than or equal to the target property

 Sites at elevations lower than the target property

 Manufactured Gas Plants

 National Priority List Sites

 Dept. Defense Sites



 Indian Reservations BIA

 Upgradient Area

 Power transmission lines

 100-year flood zone

 500-year flood zone

 National Wetland Inventory

 State Wetlands

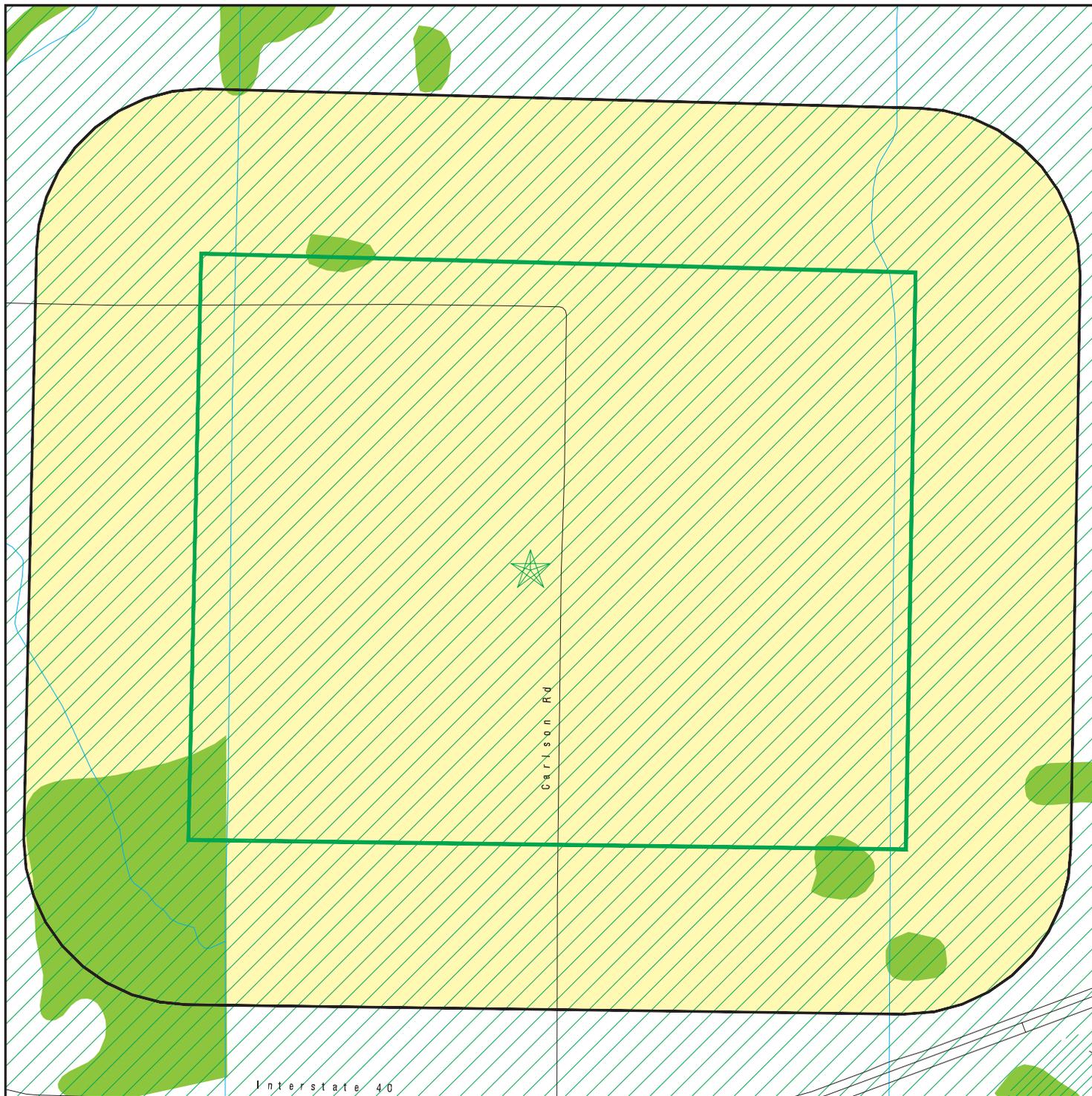


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: I-40 Megasite
 ADDRESS: Interstate 40 and Arkansas State Highway 147
 Marion AR 72364
 LAT/LONG: 35.159719 / 90.273884

CLIENT: AECOM
 CONTACT: Jim Orr
 INQUIRY #: 5260370.2s
 DATE: April 16, 2018 1:59 pm

DETAIL MAP - 5260370.2S



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

-  Indian Reservations BIA
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: I-40 Megasite
 ADDRESS: Interstate 40 and Arkansas State Highway 147
 Marion AR 72364
 LAT/LONG: 35.159719 / 90.273884

CLIENT: AECOM
 CONTACT: Jim Orr
 INQUIRY #: 5260370.2s
 DATE: April 16, 2018 2:00 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
SHWS	1.000		0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
SWID	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LTANKS	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
SPILLS 80	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
PERMITS	TP		NR	NR	NR	NR	NR	0
AR Sludge	0.500		0	0	0	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	TP		NR	NR	NR	NR	NR	0
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MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO SITES FOUND

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 12/11/2017	Source: EPA
Date Data Arrived at EDR: 12/22/2017	Telephone: N/A
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 04/06/2018
Number of Days to Update: 14	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 12/11/2017	Source: EPA
Date Data Arrived at EDR: 12/22/2017	Telephone: N/A
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 04/06/2018
Number of Days to Update: 14	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 12/11/2017	Source: EPA
Date Data Arrived at EDR: 12/22/2017	Telephone: N/A
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 04/06/2018
Number of Days to Update: 14	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 11/07/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/05/2017	Telephone: 703-603-8704
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 04/06/2018
Number of Days to Update: 92	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/09/2018	Source: EPA
Date Data Arrived at EDR: 02/06/2018	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 02/06/2018
Number of Days to Update: 66	Next Scheduled EDR Contact: 04/30/2018
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/09/2018	Source: EPA
Date Data Arrived at EDR: 02/06/2018	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 02/06/2018
Number of Days to Update: 66	Next Scheduled EDR Contact: 04/30/2018
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/11/2017	Source: EPA
Date Data Arrived at EDR: 12/26/2017	Telephone: 800-424-9346
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 03/28/2018
Number of Days to Update: 45	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 12/11/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/26/2017	Telephone: 214-665-6444
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 03/28/2018
Number of Days to Update: 45	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 12/11/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/26/2017	Telephone: 214-665-6444
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 03/28/2018
Number of Days to Update: 45	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 12/11/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/26/2017	Telephone: 214-665-6444
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 03/28/2018
Number of Days to Update: 45	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 12/11/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/26/2017	Telephone: 214-665-6444
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 03/28/2018
Number of Days to Update: 45	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

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

Date of Government Version: 05/22/2017	Source: Department of the Navy
Date Data Arrived at EDR: 06/13/2017	Telephone: 843-820-7326
Date Made Active in Reports: 09/15/2017	Last EDR Contact: 02/09/2018
Number of Days to Update: 94	Next Scheduled EDR Contact: 05/28/2018
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 11/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/27/2017	Telephone: 703-603-0695
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 02/27/2018
Number of Days to Update: 74	Next Scheduled EDR Contact: 06/11/2018
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 11/13/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/27/2017	Telephone: 703-603-0695
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 02/27/2018
Number of Days to Update: 74	Next Scheduled EDR Contact: 06/11/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 01/16/2018	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/19/2018	Telephone: 202-267-2180
Date Made Active in Reports: 03/23/2018	Last EDR Contact: 03/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

SHWS: Hazardous Substance Remedial Action Trust Fund Priority List

A partial prioritized listing of sites at which remedial actions and/or investigations shall be provided by the Hazardous Substance Remedial Action Trust Fund.

Date of Government Version: 03/12/2018	Source: Department of Environmental Quality
Date Data Arrived at EDR: 03/13/2018	Telephone: 501-682-0850
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 03/13/2018
Number of Days to Update: 31	Next Scheduled EDR Contact: 06/25/2018
	Data Release Frequency: Annually

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

SWF/LF: Solid Waste Facility Permit Database

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

Date of Government Version: 02/05/2018	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/06/2018	Telephone: 501-682-0597
Date Made Active in Reports: 03/08/2018	Last EDR Contact: 02/06/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 05/21/2018
	Data Release Frequency: Quarterly

SWID: Solid Waste Illegal Dumps Database

A listing of illegal solid waste dumps.

Date of Government Version: 02/04/2018	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/06/2018	Telephone: 501-682-0600
Date Made Active in Reports: 03/08/2018	Last EDR Contact: 02/06/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 05/21/2018
	Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LTANKS: Leaking Underground Storage Tank Data

A listing of leaking underground and aboveground storage tank locations.

Date of Government Version: 12/18/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 12/19/2017	Telephone: 501-682-0984
Date Made Active in Reports: 01/24/2018	Last EDR Contact: 03/20/2018
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/02/2018
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/14/2017	Source: EPA Region 1
Date Data Arrived at EDR: 01/23/2018	Telephone: 617-918-1313
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/23/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2017	Source: EPA Region 4
Date Data Arrived at EDR: 01/23/2018	Telephone: 404-562-8677
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/19/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/06/2018	Source: EPA Region 6
Date Data Arrived at EDR: 01/23/2018	Telephone: 214-665-6597
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/23/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/16/2017	Source: EPA, Region 5
Date Data Arrived at EDR: 01/23/2018	Telephone: 312-886-7439
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/23/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/12/2017	Source: EPA Region 7
Date Data Arrived at EDR: 01/23/2018	Telephone: 913-551-7003
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/23/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/24/2017	Source: EPA Region 10
Date Data Arrived at EDR: 01/23/2018	Telephone: 206-553-2857
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/23/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/12/2017	Source: EPA Region 8
Date Data Arrived at EDR: 01/23/2018	Telephone: 303-312-6271
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/23/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/23/2018	Telephone: 415-972-3372
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/23/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017	Source: FEMA
Date Data Arrived at EDR: 05/30/2017	Telephone: 202-646-5797
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 04/13/2018
Number of Days to Update: 136	Next Scheduled EDR Contact: 07/23/2018
	Data Release Frequency: Varies

UST: Underground Storage Tank Data
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 12/18/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 12/19/2017	Telephone: 501-682-0984
Date Made Active in Reports: 01/24/2018	Last EDR Contact: 03/20/2018
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/02/2018
	Data Release Frequency: Quarterly

AST: Aboveground Tank Database
Aboveground storage tank locations.

Date of Government Version: 12/18/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 12/19/2017	Telephone: 501-682-0984
Date Made Active in Reports: 01/24/2018	Last EDR Contact: 03/20/2018
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/02/2018
	Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2017	Source: EPA Region 4
Date Data Arrived at EDR: 01/23/2018	Telephone: 404-562-9424
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/19/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/30/2017	Source: EPA Region 9
Date Data Arrived at EDR: 01/23/2018	Telephone: 415-972-3368
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/23/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/24/2017	Source: EPA Region 10
Date Data Arrived at EDR: 01/23/2018	Telephone: 206-553-2857
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/23/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/14/2017	Source: EPA, Region 1
Date Data Arrived at EDR: 01/23/2018	Telephone: 617-918-1313
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/23/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/12/2017	Source: EPA Region 8
Date Data Arrived at EDR: 01/23/2018	Telephone: 303-312-6137
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/23/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/16/2017	Source: EPA Region 5
Date Data Arrived at EDR: 01/23/2018	Telephone: 312-886-6136
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/23/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/24/2017	Source: EPA Region 6
Date Data Arrived at EDR: 07/27/2017	Telephone: 214-665-7591
Date Made Active in Reports: 12/08/2017	Last EDR Contact: 01/23/2018
Number of Days to Update: 134	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 01/13/2018	Source: EPA Region 7
Date Data Arrived at EDR: 01/23/2018	Telephone: 913-551-7003
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 01/23/2018
Number of Days to Update: 80	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Sites Listing

A listing of sites with engineering controls in place.

Date of Government Version: 02/11/2018	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/14/2018	Telephone: 501-682-0867
Date Made Active in Reports: 03/08/2018	Last EDR Contact: 02/14/2018
Number of Days to Update: 22	Next Scheduled EDR Contact: 05/28/2018
	Data Release Frequency: Varies

INST CONTROL: Institutional Control/Land Use Restriction Sites

Sites that have institutional controls and/or land use restrictions in place.

Date of Government Version: 02/11/2018	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/14/2018	Telephone: 501-682-0867
Date Made Active in Reports: 03/08/2018	Last EDR Contact: 02/14/2018
Number of Days to Update: 22	Next Scheduled EDR Contact: 05/28/2018
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Sites

A listing of Voluntary Cleanup Program projects.

Date of Government Version: 02/12/2018	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/16/2018	Telephone: 501-682-0867
Date Made Active in Reports: 03/08/2018	Last EDR Contact: 02/12/2018
Number of Days to Update: 20	Next Scheduled EDR Contact: 05/28/2018
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 03/21/2018
Number of Days to Update: 142	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Projects

Projects that the Department of Environmental Quality has received Brownfields applications for.

Date of Government Version: 02/11/2018	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/14/2018	Telephone: 501-682-0867
Date Made Active in Reports: 03/08/2018	Last EDR Contact: 02/14/2018
Number of Days to Update: 22	Next Scheduled EDR Contact: 05/28/2018
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 01/19/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/19/2018	Telephone: 202-566-2777
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 03/21/2018
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/02/2018
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Directory

A listing of recycling facilities.

Date of Government Version: 02/05/2018	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/06/2018	Telephone: 501-682-0865
Date Made Active in Reports: 03/08/2018	Last EDR Contact: 02/06/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 05/21/2018
	Data Release Frequency: Semi-Annually

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

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 01/30/2018
Number of Days to Update: 52	Next Scheduled EDR Contact: 05/14/2018
	Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 01/22/2018
Number of Days to Update: 137	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

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

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 02/02/2018
Number of Days to Update: 176	Next Scheduled EDR Contact: 05/14/2018
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 01/19/2018	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 01/24/2018	Telephone: 202-307-1000
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 02/27/2018
Number of Days to Update: 16	Next Scheduled EDR Contact: 06/11/2018
	Data Release Frequency: No Update Planned

CDL: Methamphetamine Contaminated Properties Listing

A listing of properties believed to be contaminated by the illegal manufacture of drugs.

Date of Government Version: 01/22/2018	Source: Department of Environmental Quality
Date Data Arrived at EDR: 01/25/2018	Telephone: 501-683-1552
Date Made Active in Reports: 03/08/2018	Last EDR Contact: 01/25/2018
Number of Days to Update: 42	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

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

Date of Government Version: 01/09/2018	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 01/24/2018	Telephone: 202-307-1000
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 02/27/2018
Number of Days to Update: 16	Next Scheduled EDR Contact: 06/11/2018
	Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 12/11/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/22/2017	Telephone: 202-564-6023
Date Made Active in Reports: 01/12/2018	Last EDR Contact: 02/06/2018
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/21/2018
	Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 01/19/2018	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 01/19/2018	Telephone: 202-366-4555
Date Made Active in Reports: 03/23/2018	Last EDR Contact: 03/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

SPILLS: Emergency Response Incidents

Spills and releases notified to the Department of Environmental Quality

Date of Government Version: 01/07/2018	Source: Department of Environmental Quality
Date Data Arrived at EDR: 01/09/2018	Telephone: 501-682-0716
Date Made Active in Reports: 01/25/2018	Last EDR Contact: 04/11/2018
Number of Days to Update: 16	Next Scheduled EDR Contact: 07/23/2018
	Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 05/08/2011	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 03/06/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/30/2009	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 03/06/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

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

Date of Government Version: 12/11/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/26/2017	Telephone: 214-665-6444
Date Made Active in Reports: 02/09/2018	Last EDR Contact: 03/28/2018
Number of Days to Update: 45	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/21/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Varies

DOD: Department of Defense Sites

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

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

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/13/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

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

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

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/11/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/16/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 01/11/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 03/02/2018
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/27/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 01/31/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/08/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/23/2018
Next Scheduled EDR Contact: 07/02/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

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

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/23/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

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

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/09/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Annually

ROD: Records Of Decision

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

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/22/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 21

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/09/2018
Next Scheduled EDR Contact: 06/18/2018
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/17/2017	Telephone: 202-564-8600
Date Made Active in Reports: 12/08/2017	Last EDR Contact: 01/19/2018
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

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

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

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 02/06/2018
Number of Days to Update: 3	Next Scheduled EDR Contact: 05/21/2018
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 06/01/2017	Source: EPA
Date Data Arrived at EDR: 06/09/2017	Telephone: 202-566-0500
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 04/13/2018
Number of Days to Update: 126	Next Scheduled EDR Contact: 07/23/2018
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 04/09/2018
Number of Days to Update: 79	Next Scheduled EDR Contact: 07/23/2018
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

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

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

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

Date of Government Version: 08/30/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 09/08/2016	Telephone: 301-415-7169
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 01/19/2018
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/21/2018
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

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

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 03/09/2018
Number of Days to Update: 76	Next Scheduled EDR Contact: 06/18/2018
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

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

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 03/06/2018
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/18/2018
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

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

Date of Government Version: 05/24/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/30/2017	Telephone: 202-566-0517
Date Made Active in Reports: 12/15/2017	Last EDR Contact: 01/26/2018
Number of Days to Update: 15	Next Scheduled EDR Contact: 05/07/2018
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/03/2018
Date Data Arrived at EDR: 01/04/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 99

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/05/2018
Next Scheduled EDR Contact: 07/16/2018
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

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

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

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

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

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/19/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 79

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/06/2018
Next Scheduled EDR Contact: 07/02/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

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

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/23/2018
Next Scheduled EDR Contact: 06/04/2018
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN RESERV: Indian Reservations

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

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 04/11/2018
Number of Days to Update: 546	Next Scheduled EDR Contact: 07/23/2018
	Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016	Source: Department of Energy
Date Data Arrived at EDR: 12/27/2016	Telephone: 202-586-3559
Date Made Active in Reports: 02/17/2017	Last EDR Contact: 01/19/2018
Number of Days to Update: 52	Next Scheduled EDR Contact: 05/21/2018
	Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 06/23/2017	Source: Department of Energy
Date Data Arrived at EDR: 10/11/2017	Telephone: 505-845-0011
Date Made Active in Reports: 11/03/2017	Last EDR Contact: 02/23/2018
Number of Days to Update: 23	Next Scheduled EDR Contact: 06/04/2018
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/09/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/06/2018	Telephone: 703-603-8787
Date Made Active in Reports: 03/02/2018	Last EDR Contact: 04/06/2018
Number of Days to Update: 24	Next Scheduled EDR Contact: 07/16/2018
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

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

Date of Government Version: 10/29/2017
Date Data Arrived at EDR: 11/28/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 45

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/28/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/02/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/02/2018
Next Scheduled EDR Contact: 06/11/2018
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/20/2017
Date Data Arrived at EDR: 12/21/2017
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 92

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/07/2018
Next Scheduled EDR Contact: 06/25/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 02/21/2018	Source: EPA
Date Data Arrived at EDR: 02/23/2018	Telephone: (214) 665-2200
Date Made Active in Reports: 03/23/2018	Last EDR Contact: 02/23/2018
Number of Days to Update: 28	Next Scheduled EDR Contact: 06/18/2018
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016	Source: Department of Defense
Date Data Arrived at EDR: 10/31/2017	Telephone: 703-704-1564
Date Made Active in Reports: 01/12/2018	Last EDR Contact: 04/13/2018
Number of Days to Update: 73	Next Scheduled EDR Contact: 07/30/2018
	Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 01/04/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/19/2018	Telephone: 202-564-0527
Date Made Active in Reports: 04/13/2018	Last EDR Contact: 03/02/2018
Number of Days to Update: 84	Next Scheduled EDR Contact: 06/11/2018
	Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/13/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/19/2018	Telephone: 202-564-2280
Date Made Active in Reports: 03/02/2018	Last EDR Contact: 03/07/2018
Number of Days to Update: 42	Next Scheduled EDR Contact: 06/18/2018
	Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/20/2018	Source: EPA
Date Data Arrived at EDR: 02/21/2018	Telephone: 800-385-6164
Date Made Active in Reports: 03/23/2018	Last EDR Contact: 02/21/2018
Number of Days to Update: 30	Next Scheduled EDR Contact: 06/04/2018
	Data Release Frequency: Quarterly

AIRS: Permitted Facility Emission & Stack Data

Permitted facility emissions and stack data for the state.

Date of Government Version: 12/22/2017	Source: Department of Environmental Quality
Date Data Arrived at EDR: 12/26/2017	Telephone: 501-682-0726
Date Made Active in Reports: 01/24/2018	Last EDR Contact: 03/27/2018
Number of Days to Update: 29	Next Scheduled EDR Contact: 07/09/2018
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ASBESTOS: Asbestos Notification of Intent Database

The database contains all properties/facilities that have submitted a Notice of Intent for renovation or demolition activities.

Date of Government Version: 01/23/2018
Date Data Arrived at EDR: 01/26/2018
Date Made Active in Reports: 03/15/2018
Number of Days to Update: 48

Source: Department of Environmental Quality
Telephone: 501-682-0717
Last EDR Contact: 10/24/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Quarterly

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 03/27/2017
Number of Days to Update: 45

Source: Department of Environmental Quality
Telephone: 501-682-0600
Last EDR Contact: 03/14/2018
Next Scheduled EDR Contact: 05/21/2018
Data Release Frequency: Varies

ENFORCEMENT: Consent Administrative Order, Notice of Violation Information Database

Violations issued to facilities in various Department of Environmental Quality programs, including Air, Hazardous Waste, Storage Tanks, Solid Waste and Water.

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/25/2018
Date Made Active in Reports: 03/08/2018
Number of Days to Update: 42

Source: Department of Environmental Quality
Telephone: 501-682-0892
Last EDR Contact: 01/25/2018
Next Scheduled EDR Contact: 05/07/2018
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

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

Date of Government Version: 12/14/2017
Date Data Arrived at EDR: 12/15/2017
Date Made Active in Reports: 02/05/2018
Number of Days to Update: 52

Source: Department of Environmental Quality
Telephone: 501-682-0876
Last EDR Contact: 03/29/2018
Next Scheduled EDR Contact: 07/02/2018
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

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

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/18/2014
Date Made Active in Reports: 05/13/2014
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 501-682-0589
Last EDR Contact: 04/05/2018
Next Scheduled EDR Contact: 07/23/2018
Data Release Frequency: Quarterly

Financial Assurance 3: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities.

Date of Government Version: 03/19/2018
Date Data Arrived at EDR: 03/20/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 24

Source: Department of Environmental Quality
Telephone: 501-682-0979
Last EDR Contact: 03/20/2018
Next Scheduled EDR Contact: 07/02/2018
Data Release Frequency: Quarterly

PERMITS: Permit Data System

A list of sites permitted by the Department of Environmental Quality, including Air, Mining, Solid Waste and Water.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/12/2017
Date Made Active in Reports: 01/24/2018
Number of Days to Update: 43

Source: Department of Environmental Quality
Telephone: 501-682-0673
Last EDR Contact: 03/14/2018
Next Scheduled EDR Contact: 06/25/2018
Data Release Frequency: Quarterly

SLUDGE: Poultry Sludge Permit Sites

Broiler fryer roast chickens, chicken eggs, poultry hatcheries, poultry and egg processing sites.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 12/12/2017
Date Made Active in Reports: 01/24/2018
Number of Days to Update: 43

Source: Department of Environmental Quality
Telephone: 501-682-0673
Last EDR Contact: 03/14/2018
Next Scheduled EDR Contact: 06/25/2018
Data Release Frequency: Quarterly

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 09/24/2014
Date Made Active in Reports: 10/29/2014
Number of Days to Update: 35

Source: Department of Environmental Management
Telephone: 501-683-6700
Last EDR Contact: 02/08/2018
Next Scheduled EDR Contact: 05/28/2018
Data Release Frequency: Varies

UIC: Underground Injection Wells Database Listing

A listing of wells identified as Underground Injection Wells, in the Arkansas Oil and Gas Wells data base.

Date of Government Version: 01/08/2018
Date Data Arrived at EDR: 01/16/2018
Date Made Active in Reports: 01/25/2018
Number of Days to Update: 9

Source: Arkansas Oil & Gas Commission
Telephone: 870-862-4965
Last EDR Contact: 01/16/2018
Next Scheduled EDR Contact: 04/30/2018
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

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

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

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

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Arkansas.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/02/2014
Number of Days to Update: 185

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Arkansas.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/16/2014
Number of Days to Update: 199

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Arkansas.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 187

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

OTHER DATABASE(S)

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

CT MANIFEST: Hazardous Waste Manifest Data

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

Date of Government Version: 01/03/2018	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 02/14/2018	Telephone: 860-424-3375
Date Made Active in Reports: 03/22/2018	Last EDR Contact: 02/14/2018
Number of Days to Update: 36	Next Scheduled EDR Contact: 05/28/2018
	Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

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

Date of Government Version: 12/31/2017	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 01/31/2018	Telephone: 518-402-8651
Date Made Active in Reports: 03/09/2018	Last EDR Contact: 01/31/2018
Number of Days to Update: 37	Next Scheduled EDR Contact: 05/14/2018
	Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/25/2017	Telephone: 717-783-8990
Date Made Active in Reports: 09/25/2017	Last EDR Contact: 04/12/2018
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/30/2018
	Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017	Source: Department of Environmental Management
Date Data Arrived at EDR: 02/23/2018	Telephone: 401-222-2797
Date Made Active in Reports: 04/09/2018	Last EDR Contact: 02/21/2018
Number of Days to Update: 45	Next Scheduled EDR Contact: 06/04/2018
	Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016	Source: Department of Natural Resources
Date Data Arrived at EDR: 04/13/2017	Telephone: N/A
Date Made Active in Reports: 07/14/2017	Last EDR Contact: 03/08/2018
Number of Days to Update: 92	Next Scheduled EDR Contact: 06/25/2018
	Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation
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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

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

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

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

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

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

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory

Source: US Fish & Wildlife Service

Telephone: 703-358-2171

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

I-40 MEGASITE
INTERSTATE 40 AND ARKANSAS STATE HIGHWAY 147
MARION, AR 72364

TARGET PROPERTY COORDINATES

Latitude (North):	35.159719 - 35° 9' 34.99"
Longitude (West):	90.273884 - 90° 16' 25.98"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	748315.8
UTM Y (Meters):	3893960.8
Elevation:	210 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6064031 CRAWFORDSVILLE, AR
Version Date:	2014

East Map:	6064059 WEST MEMPHIS, AR
Version Date:	2014

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

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

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

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