Permit No. _____ STATE OF MISSISSIPPI Application No. A1986

SURFACE MINING PERMIT APPLICATION AI#71751

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF GEOLOGY / MINING & RECLAMATION DIVISION
P. O. Box 2279
Jackson, Mississippi 39225-2279
(601) 961-5515
Fax (601) 961-5521

For Office use only

Other permits required:	Y/N	Date
NPDES	___	___
State Operating Permit	___	___
Corps of Engineers	___	___
_____	___	___
_____	___	___

City/County approval
Required Yes ___ No ___
Received Date: _____
County _____
City _____

A. GENERAL INFORMATION

1. Name of Applicant: Eutaw Construction Company, Inc.
   Mailing Address: P.O. Box 2482, Madison, MS 39110
   E-mail Address: tbalducci@eutaw.us
   Phone No. (662) 813-3040 Fax No. _____
   Authorized Representative Tim Balducci, Environmental Manager

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2. Engineering Firm, Consultant, etc.: _____
   Mailing Address: _____
   E-mail Address: _____
   Phone No. _____ Fax No. _____

3. Name of Mine: HDR Mine Mine Supervisor: Tony Edwards
   Phone No. (662) 315-1531 Fax No. _____

4. Location of Operation (to nearest quarter-quarter section):
   Parts of S4, T4N, R1W and S5, T4N, R1W _____ _____ Hinds
   BC 06/16/17 Sections 32, 33 T5N, R1W
   Section Township Range County

5. Physical address of mine or nearest named road near 1130 Big Creek Road, Jackson, MS 39212

6. Method of Operation ☒ Open Pit ☐ Strip ☐ Dredge ☐ Wash Operation, if so Water Source _____
   Wash System Type ☐ Closed system ☐ Open system

7. **Number of Acres to be Permitted**:
   Excavation 230
   Haul roads, plant site, ponds, storage piles, etc. 12
   TOTAL PERMITTED AREA 242

8. Is the Permit Area located:

	Yes	No
a. within 100 feet of a public road?	___	X
b. within 100 feet of a cemetery?	___	X
c. within 300 feet of an occupied building?	___	X

If YES to a, b, or c, a letter must be filed with the Office giving permission from the owner or maintaining authority to mine within these distances to the subject property.

9. Materials to be Mined: Borrow Soil

10. Has the applicant applied for, or have, any other permits or licenses that pertain to this or any other mining operation? Yes X No ___

If "YES," list them in the space provided on page 5, or attach separate pages, and give the current status of each, including any violations or penalties.

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B. MINING PROCEDURE AND ENVIRONMENTAL ANALYSIS

1. Description of materials:

Thickness of overburden (Topsoil **MUST** be stockpiled for use during reclamation) 1 ft.

T1 - 40'
T2 - 14'
T3 - 24'
T4 - 13'
T5 - 16'

Thickness of useable material avg. 5 ft.

Total depth of excavation 6 ft. BLC 06/16/17

Estimated annual production 100,000 tons CY

2. Anticipated Schedule (month/year)

Begin clearing 07/17 (Partial Reclamation 7/17 - 10/18)

Begin mining 07/17

Complete mining 10/18

Begin reclamation 11/18 (Begin Final Reclam.

Complete reclamation 12/20 (Final Release)

3. Depth to ground water: @ 20 ft.

4. How will dust be controlled?

☒ Water on haul roads

☐ Water Truck

5. Types of erosion control structures that will be utilized.

☒ Settling ponds ☒ Drainage ditches

☒ Diversion berms ☒ Terraced slopes

☐ _____

6. Describe the land to be affected by mining as it presently exists: pastureland with moderate vegetation

a. Land use pasture land b. Predominant vegetation grass

7. Will explosives be used? ___ Yes X No

8. Is test-boring data available? ___ Yes X No

9. Are toxic materials likely to be encountered at any time? ___ Yes X No

10. Will there be any discharge to local streams or other bodies of water? ___ Yes X No

If any of questions 7-10 are answered "YES," provide additional information on page 5, or attach separate pages.

C. RECLAMATION PLAN

NOTE: It is suggested that the county NRCS office be consulted for specific recommendations on the following items.

1. Describe the soil handling technique for the reclamation phase of the operation:

☒ Topsoil segregated ☐ Mixed strata ☐ _____

2. Describe the protection method for the stockpiled topsoil.

☒ berm around the storage pile

☒ grass cover on the pile (recommended)

☐ stored under a cover

☐ Perimeter Silt Fence

3. How will highwalls, standing faces, and banks be reduced to minimize erosion? (All highwalls must be sloped, minimum 3 horizontal to 1 vertical.)

☒ slopes will be terraced

☒ sloped to a gradient of 3 to 1

☒ blended with surrounding contours

☐ _____

4. What is the general plan for reclamation?

☐ reforestation
☒ establish grass cover
☐ pond or lake
☐ _____

5. What planting method will be used?

☒ broadcast seed ☒ mechanical seeding
☐ seeding by manual labor
☐ _____

6. How will fertilizer and lime be applied and incorporated?

☒ harrowing ☒ broadcasting ☒ disking

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7. Quantity of lime and fertilizer to be applied?

a. For initial planting
lime: 2 tons per acre
fertilizer: 13 - 13 - 13 (type) 500 pounds per acre

b. For successive years prior to 100% release
fertilizer: 13 - 13 - 13 (type) 250 pounds per acre
when: May or June (month)

8. Describe the planting schedule:

Tree or Seed Species	Tree spacing or lbs./acre	Planting Season
Bermuda	20	Spring and Fall
Bahia	25	Spring and Fall
Fescue	30	Spring and Fall

9. Will the area be mulched? X Yes ____ No If yes, rate per acre 1 ton

Method of holding in place: ☒ crimped ☐ _____

10. How will the vegetation be maintained until the final bond release?

☐ watering
☒ mowing
times per year 2
approximate month(s) April, September, _____
☒ repairing gullies
☒ replanting eroded areas
☐ _____

11. How will debris be disposed of when the mine is finally closed?

☐ burying ☒ burning ☐ hauling away

12. Will a soil analysis be submitted for this site? ____ Yes X No
NOTE: available from the Cooperative Extension Service through the applicant's County Agent

13. Estimated cost per acre for reclamation of this site: 1,000 (minimum of $1,000 per acre)

D. NAMES AND ADDRESSES OF PERSONS AFFECTED BY THIS OPERATION

1. Landowner(s) of area to be mined/leased

Name: Heath Jenkins/HDR Properties, LLC
Address: 5352 Lakeland Drive, Suite 1400
Flowood, MS 39232
Phone: 601-720-3555

Name: _____
Address: _____
_____
Phone: _____

2. Landowner(s) within 500 feet of the area

Name: None
Address: _____
_____
Phone: _____

Name: _____
Address: _____
_____
Phone: _____

Name: _____
Address: _____
_____
Phone: _____

Name: _____
Address: _____
_____
Phone: _____

3. Person(s) living on permit area

Name: None
Address: _____
_____
Phone: _____

Name: _____
Address: _____
_____
Phone: _____

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i declare that I have knowledge of the facts presented in the preceding pages and in all of the items attached to this application; furthermore, I certify that they are true to the best of my knowledge.

May 25, 2017
date

signature

Tim Balducci
printed name

Environmental Manager
title

E. ADDITIONAL COMMENTS

Item Number	Space for detailed answers to any of the previous items. Indicate item number to which the answers apply.
	See attached sheet for existing permits

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If more space is required, use full sheets of paper the same size as this page. Attach all sheets to this application.

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EUTAW CONSTRUCTION COMPANY, INC. ACTIVE PERMITS 5/25/2017 9:22:51 AM

AI ID	Agency Interest Name	Permit #	Permit Type	City	County
1423	Eutaw Construction Company Inc Pryor Holloway Gravel Pit	MSR320779	General Permit - Mining	New Hamilton	Monroe
58358	Eutaw Construction Company Inc, Alberson Mine	MSR322227	General Permit - Mining	Byhalia	Marshall
14998	Eutaw Construction Company Inc, Bethany Pit	MSR322214	General Permit - Mining	Tupelo	Lee
64620	Eutaw Construction Company Inc, Chandler Mine	MSR322339	General Permit - Mining	West Point	Clay
63637	Eutaw Construction Company Inc, Crook Mine	MSR322287	General Permit - Mining	Amory	Monroe
62785	Eutaw Construction Company Inc, Dalrymple Mine	MSR322257	General Permit - Mining	Amory	Monroe
69608	Eutaw Construction Company Inc, Faulkner Mine	MSR322539	General Permit - Mining	Batesville	Panola
58084	Eutaw Construction Company Inc, Highway 43 Mine	MSR322219	General Permit - Mining	Pelahatchie	Rankin
58655	Eutaw Construction Company Inc, Laydown Yard	MSR002206	General Permit - Baseline	Columbus	Lowndes
70630	Eutaw Construction Company Inc, MSU Mine	MSR322594	General Permit - Mining	Starkville	Oktibbeha
64234	Eutaw Construction Company Inc, Malone Road Mine	MSR322318	General Permit - Mining	Olive Branch	Desoto
64521	Eutaw Construction Company Inc, Moffett Mine	MSR322335	General Permit - Mining	Amory	Monroe

57750	Eutaw Construction Company Inc, Pear Tree Road Mine	MSR322210	General Permit - Mining	Pontotoc	Pontotoc
62636	Eutaw Construction Company Inc, Ritter Road Mine	MSR322247	General Permit - Mining	Amory	Monroe
70963	Eutaw Construction Company Inc, Thomas Mine 4	MSR322607	General Permit - Mining	Batesville	Panola
69094	Eutaw Construction Company Inc, Winston Mine	MSR322514	General Permit - Mining	Starkville	Oktibbeha
62696	Eutaw Construction Company Inc, Young Mine	MSR322250	General Permit - Mining	Amory	Monroe

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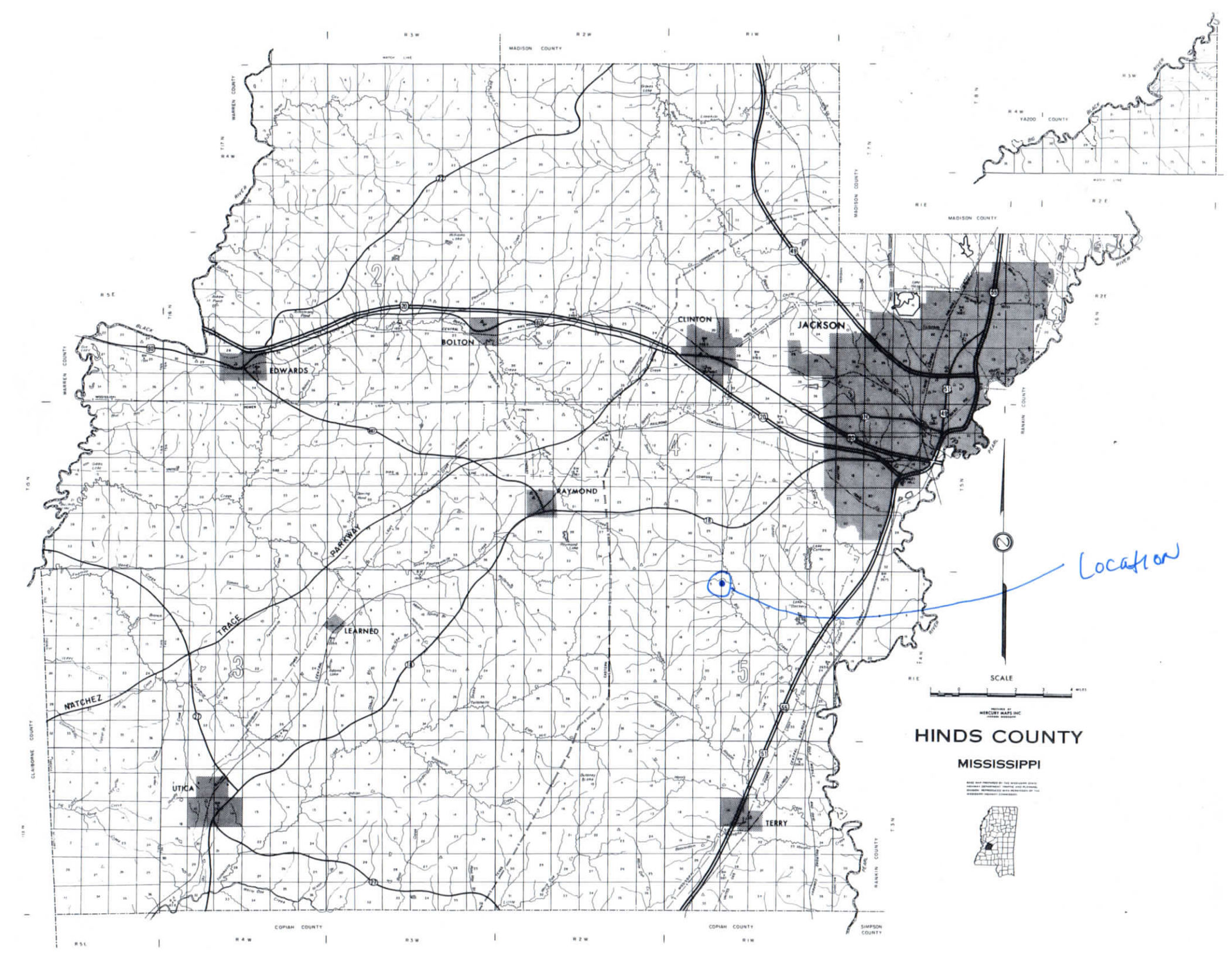
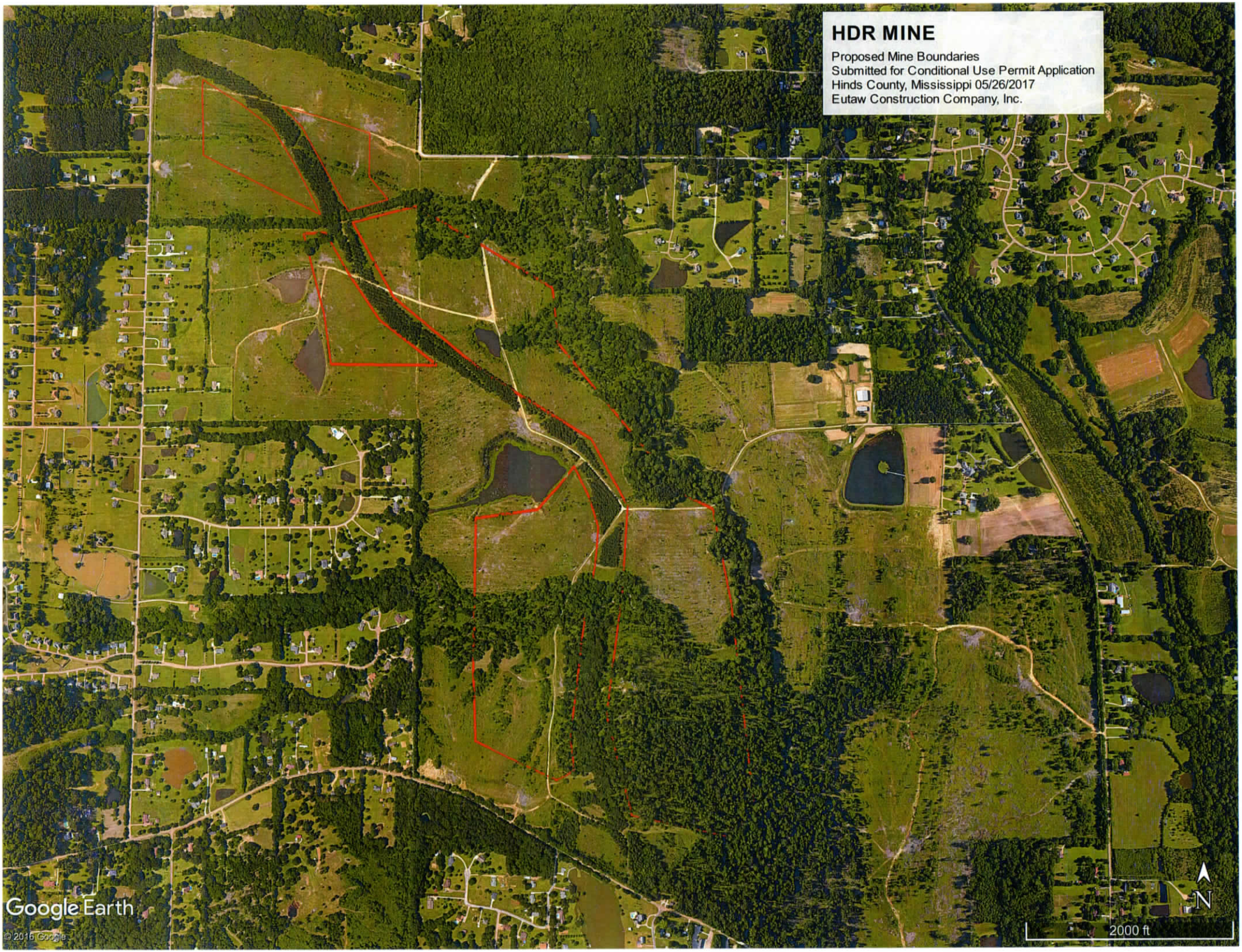
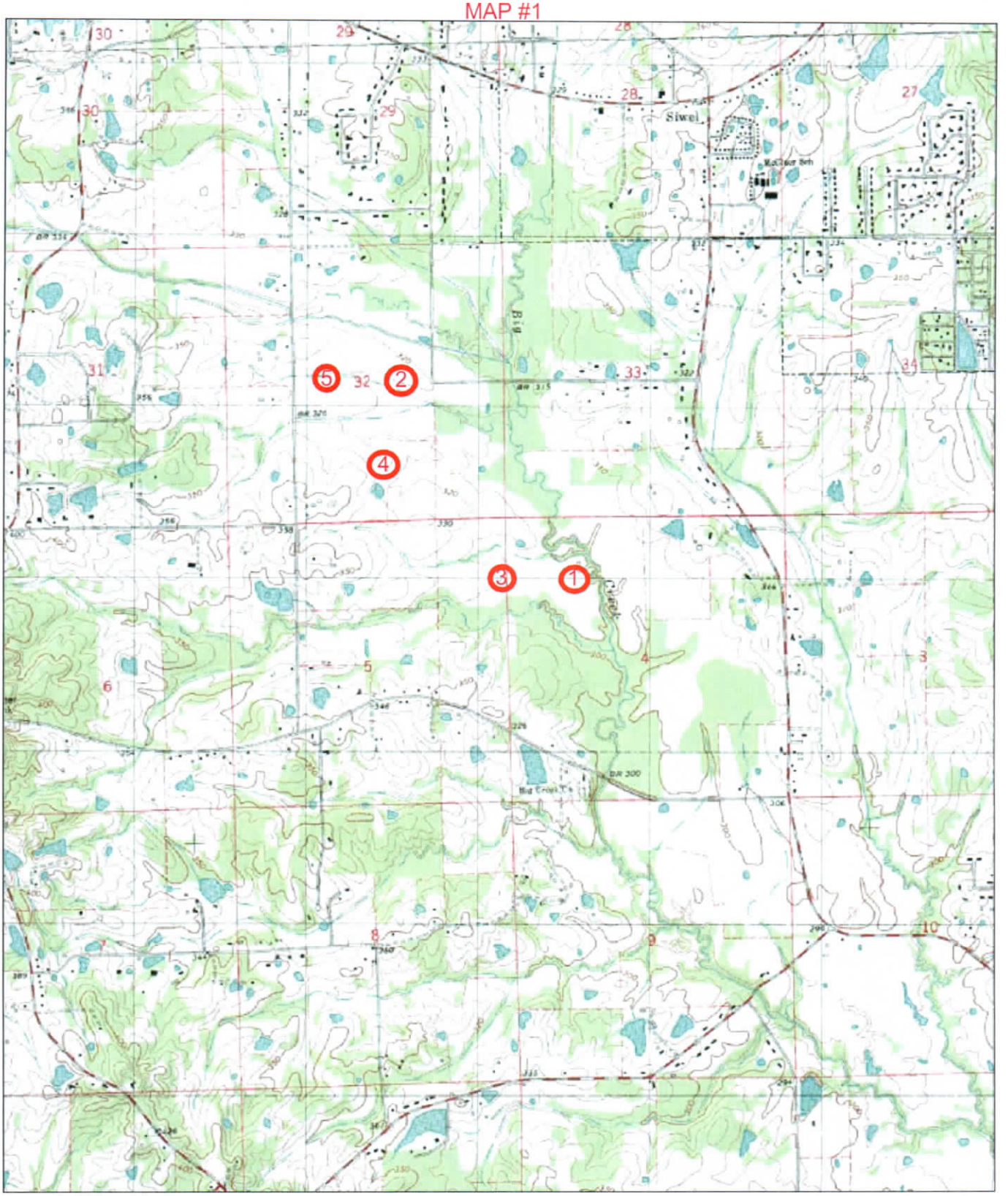

HINDS COUNTY
MISSISSIPPI
SCALE
Location
CLINTON
JACKSON
BOLTON
EDWARDS
RAYMOND
LEARNED
TERRY
UTICA
NATCHEZ TRACE PARKWAY
MADISON COUNTY
WARREN COUNTY
RANKIN COUNTY
COPIAH COUNTY
SIMPSON COUNTY
CLAIBORNE COUNTY
YAZOO COUNTY


HDR MINE
Proposed Mine Boundaries
Submitted for Conditional Use Permit Application
Hinds County, Mississippi 05/26/2017
Eutaw Construction Company, Inc.
Google Earth
© 2016 Google
N
2000 ft

HDR MINE TRACT LOCATIONS
MAP #1



Map provided by MyTopo.com

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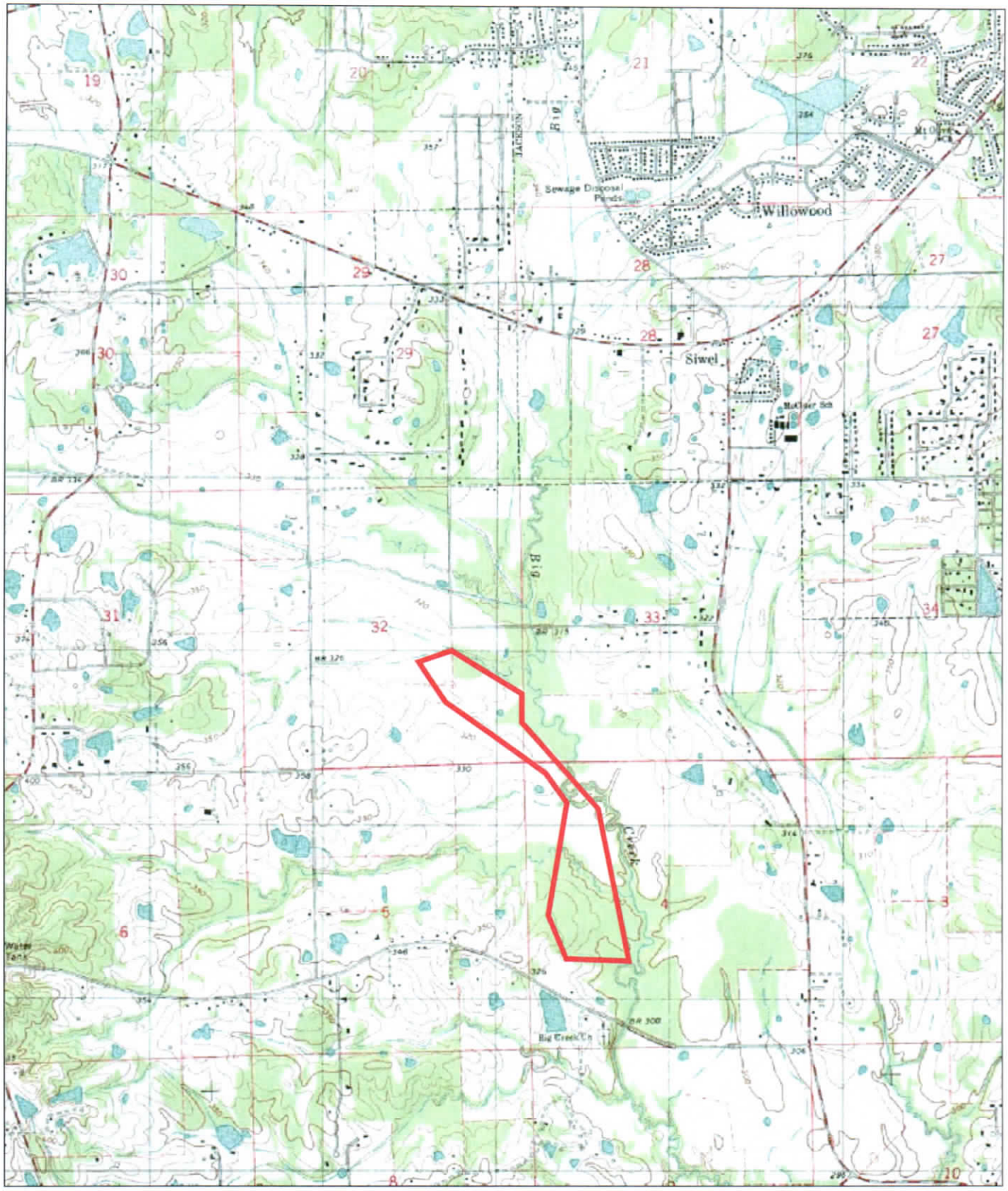
HDR Mine Tract 1 - 143 Acres
MAP #1



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Map provided by MyTopo.com

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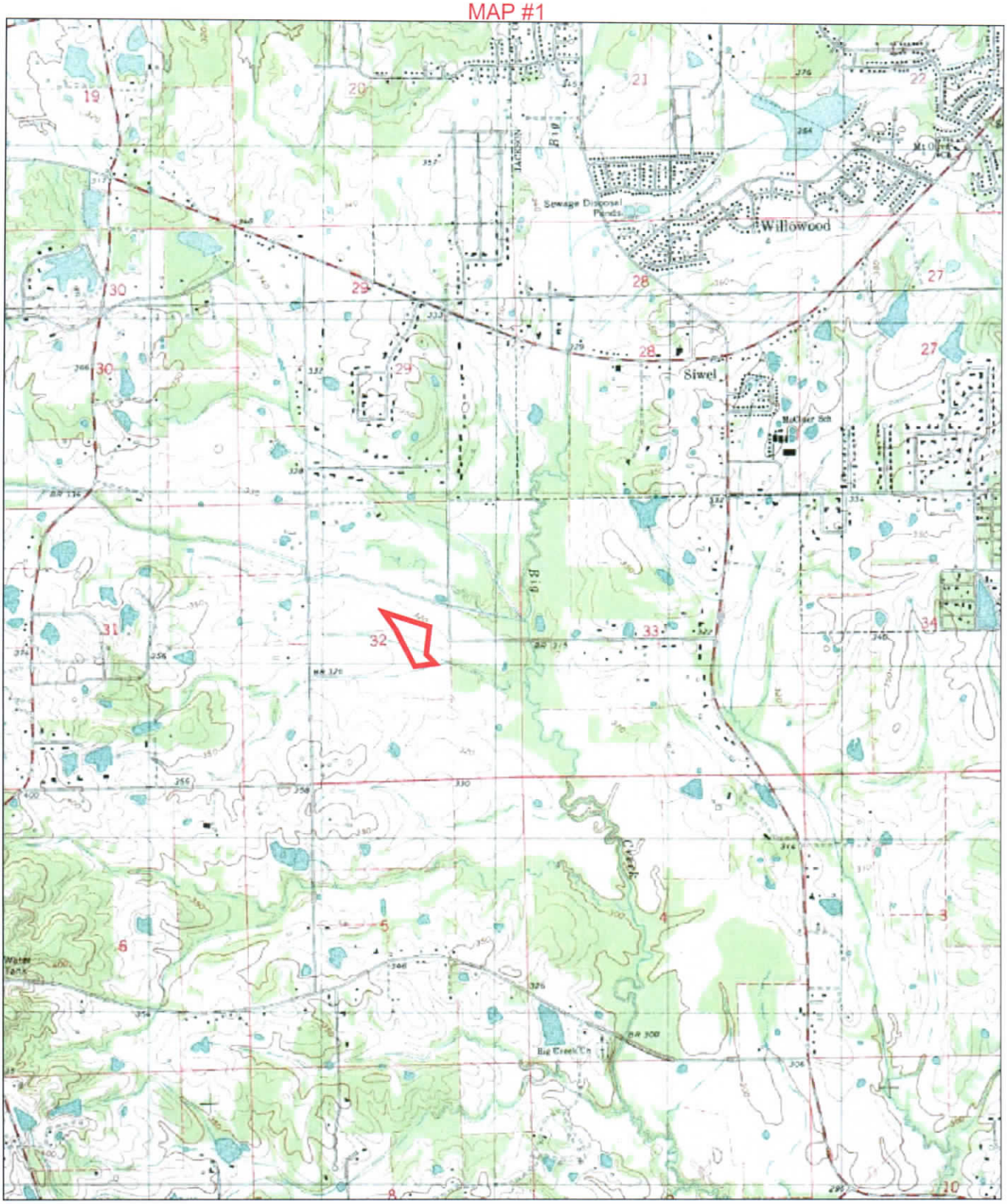
#1 (1) – There are no water wells within 0.5 Miles of the permit area

#1 (2) – The proposed mine boundary is outlined in RED above

#1 (3) – The nearest public road is Big Creek Road to the South and Parks Road to the West

HDR Mine Tract 2 - 10 Acres
MAP #1



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Map provided by MyTopo.com

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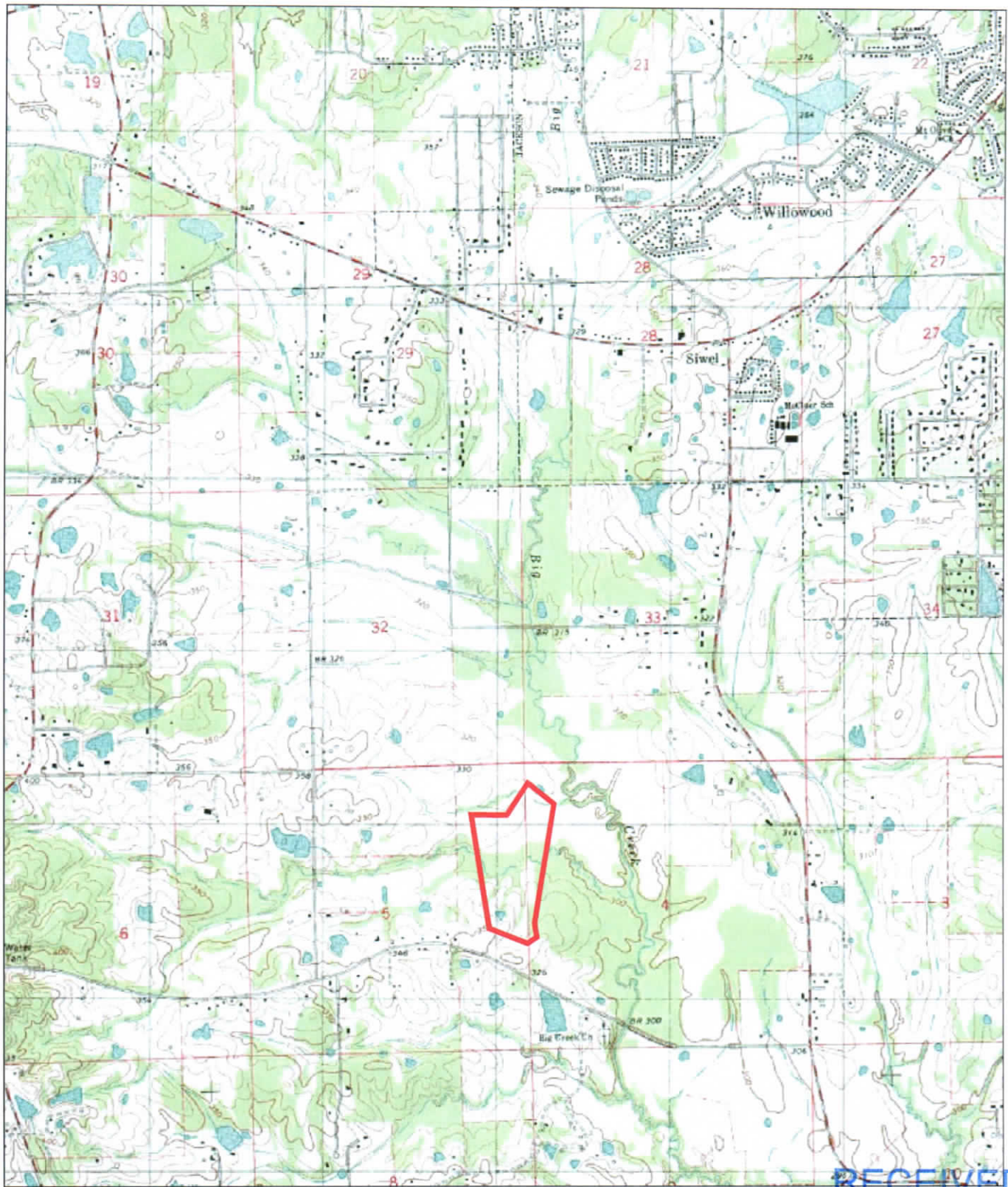
HDR Mine Tract 3 - 60 Acres
MAP #1



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Map provided by MyTopo.com

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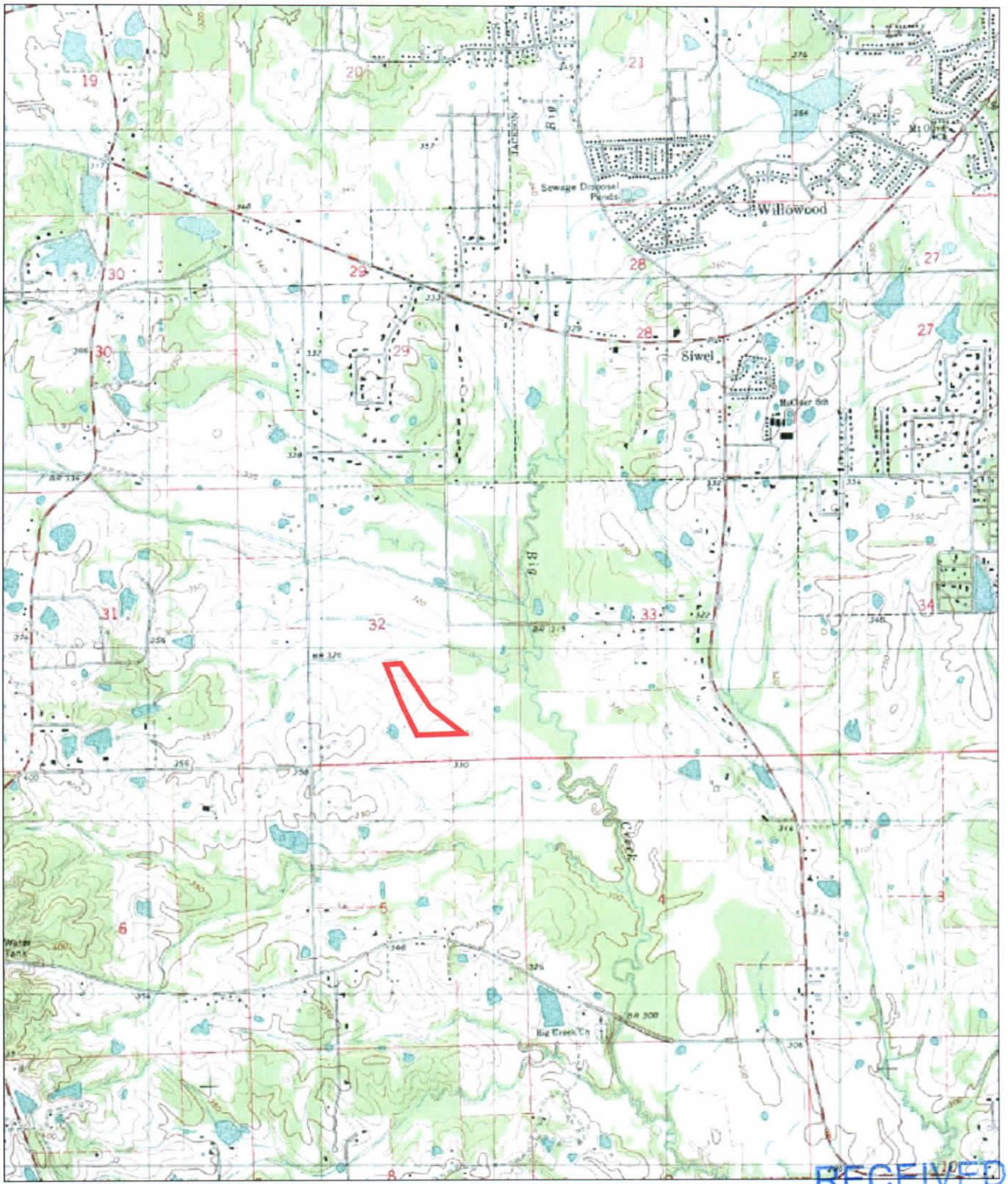
HDR Mine Tract 4 - 15 Acres
MAP #1



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Map provided by MyTopo.com

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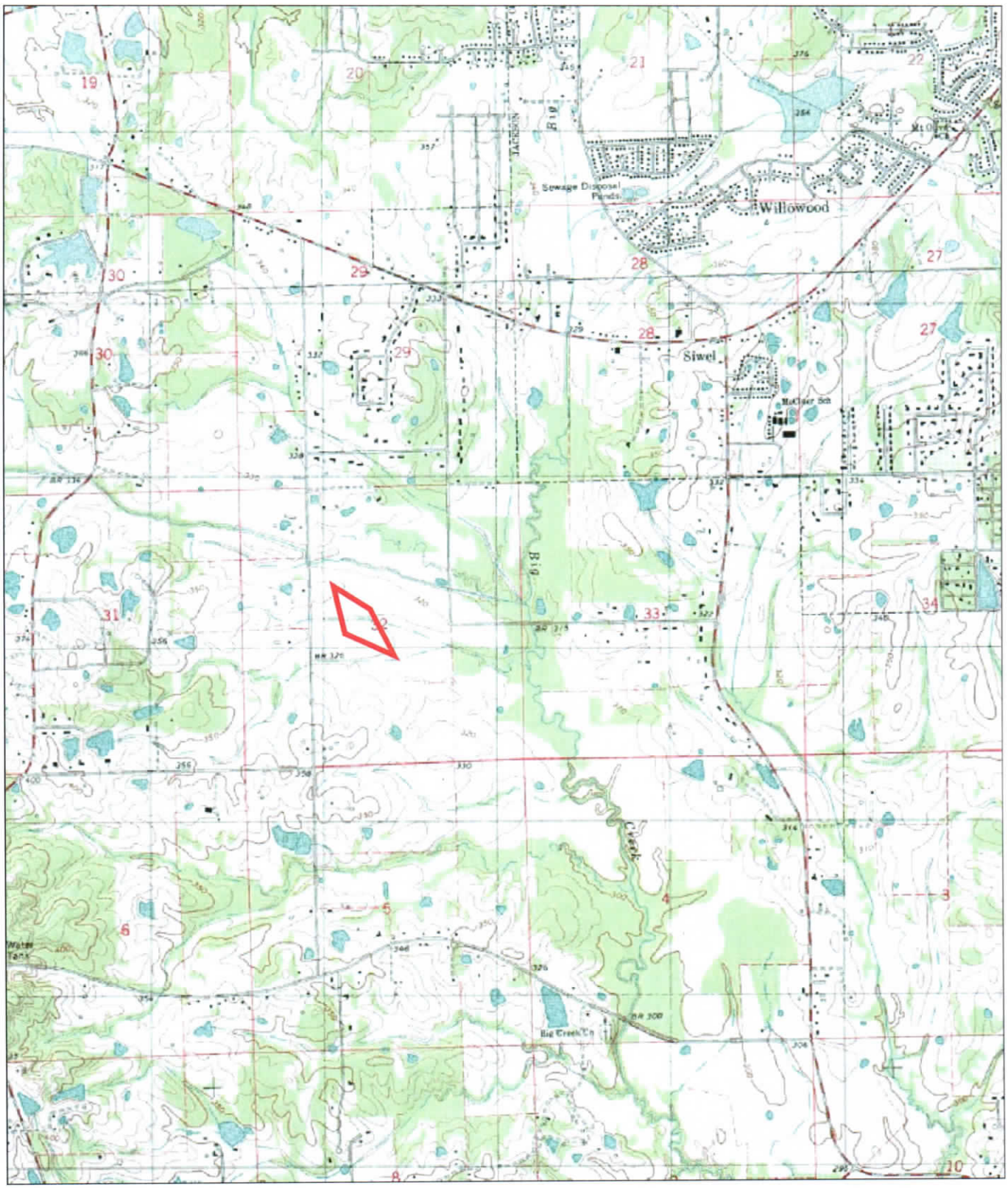
MyTopo Map Print

HDR Mine Tract 5 - 14 Acres
MAP #1



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Map provided by MyTopo.com

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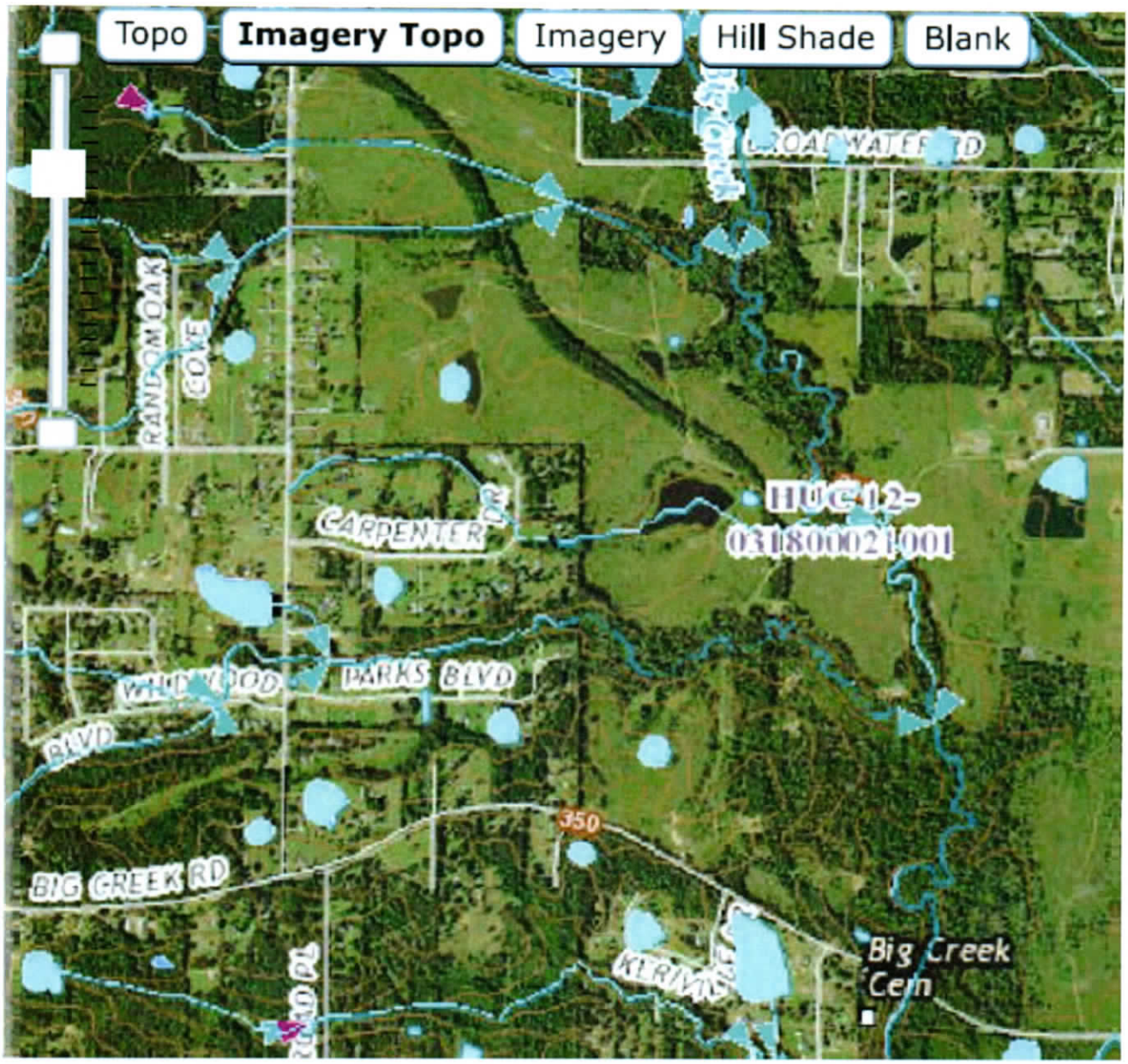
HDR Mine 242 Acres
Parts of S4, T4N, R1W and S5, T4N, R1W
Hinds County, Mississippi

MAP #1(4.)
Site Surface Drainage Features

N



The surface drainage of the mine site is served by an unnamed tributary of Big Creek which flows generally from the West to the East portion of the site. There, that unnamed tributary converges with Big Creek, which generally flows North to South and off-site.

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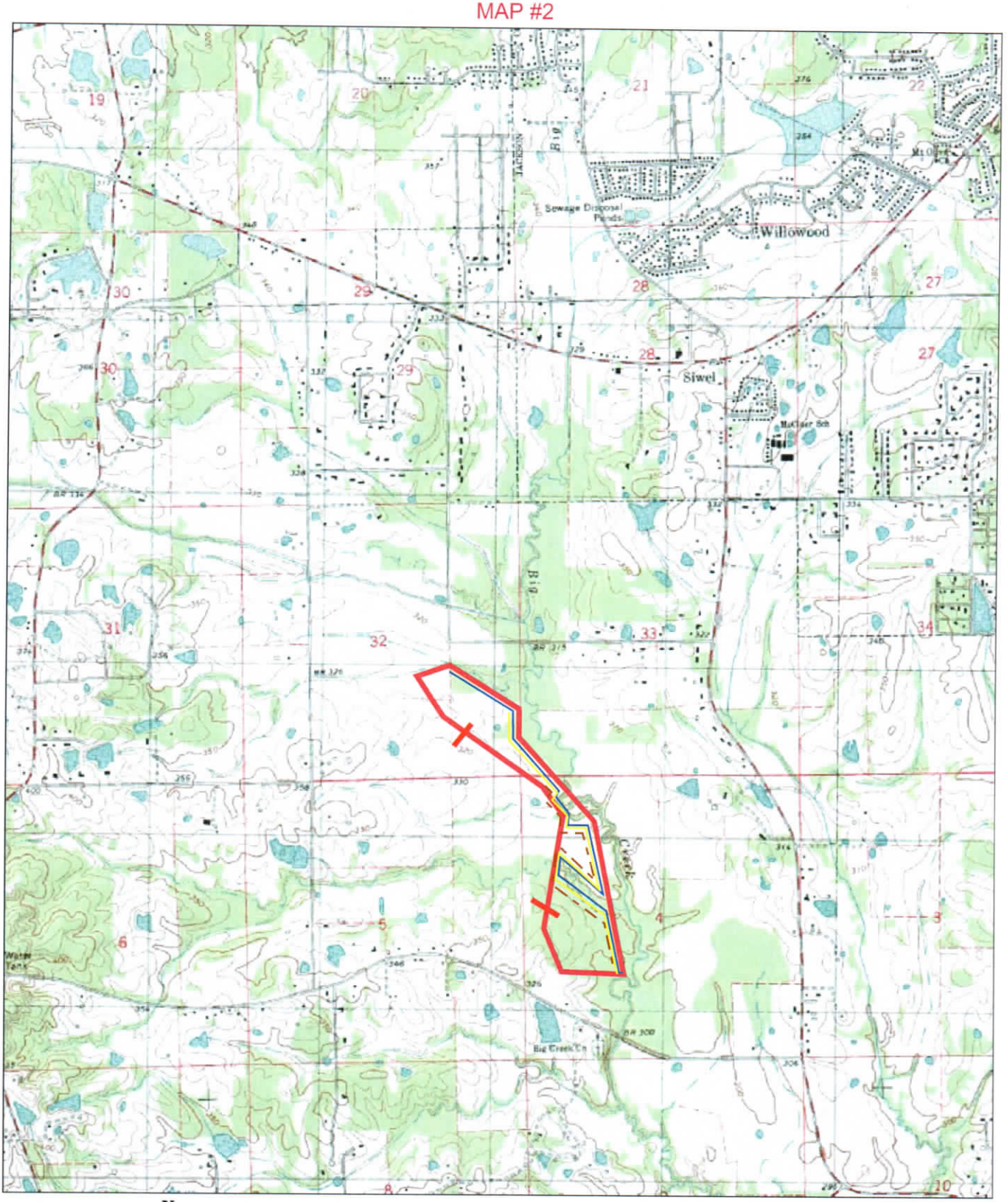
MyTopo Map Print

HDR Mine Tract 1 - 143 Acres
MAP #2



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Map provided by MyTopo.com

BLUE LINE: Perimeter Buffer Zone
BROWN DOTTED LINE: Perimeter Brush Dikes
YELLOW LINE: Perimeter Silt Fence
RED LINES: Haul Roads to access Byram Clinton Parkway ROW

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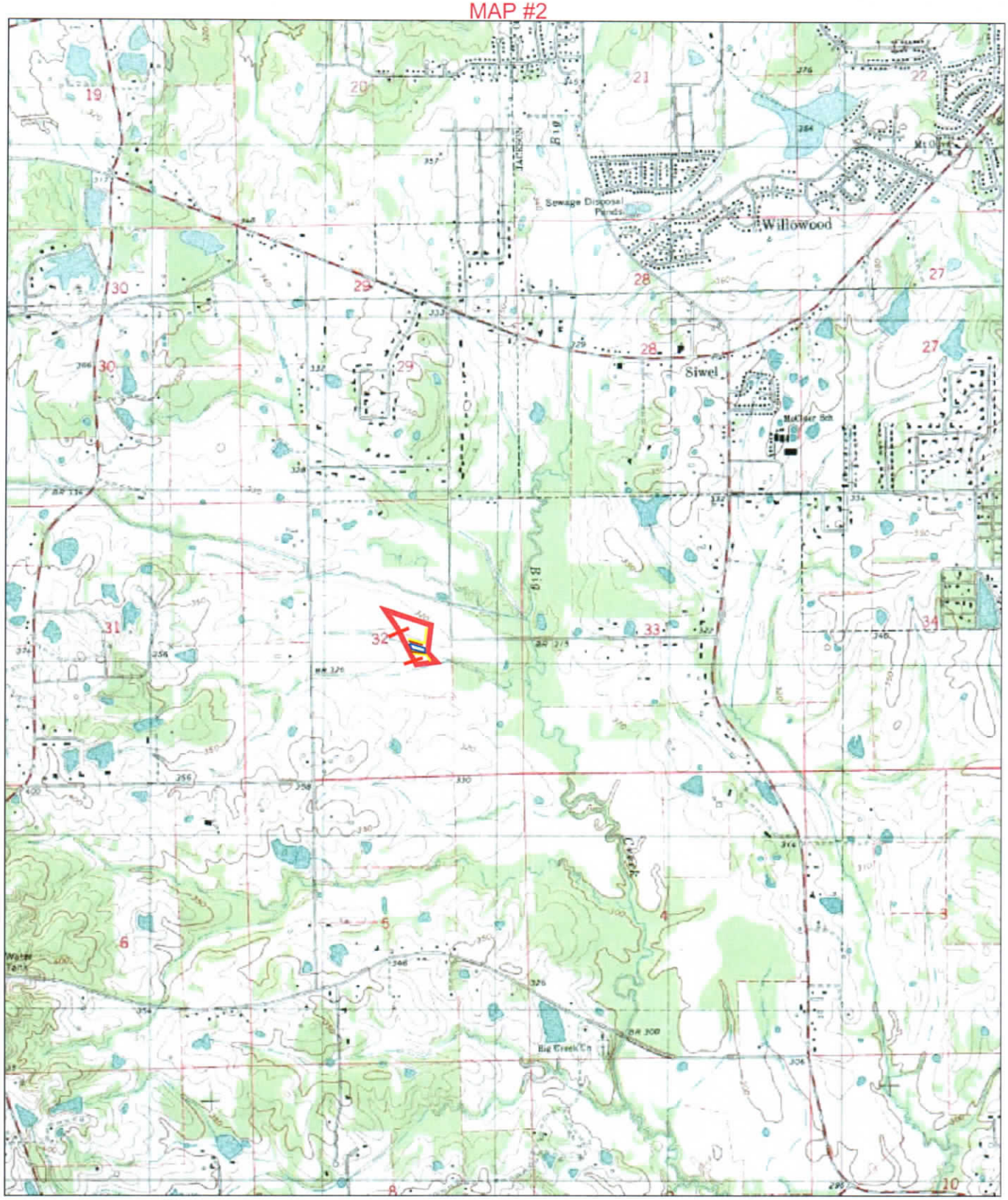
HDR Mine Tract 2 - 10 Acres
MAP #2



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Map provided by MyTopo.com

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RED LINES: Haul Roads to access Byram Clinton Parkway ROW

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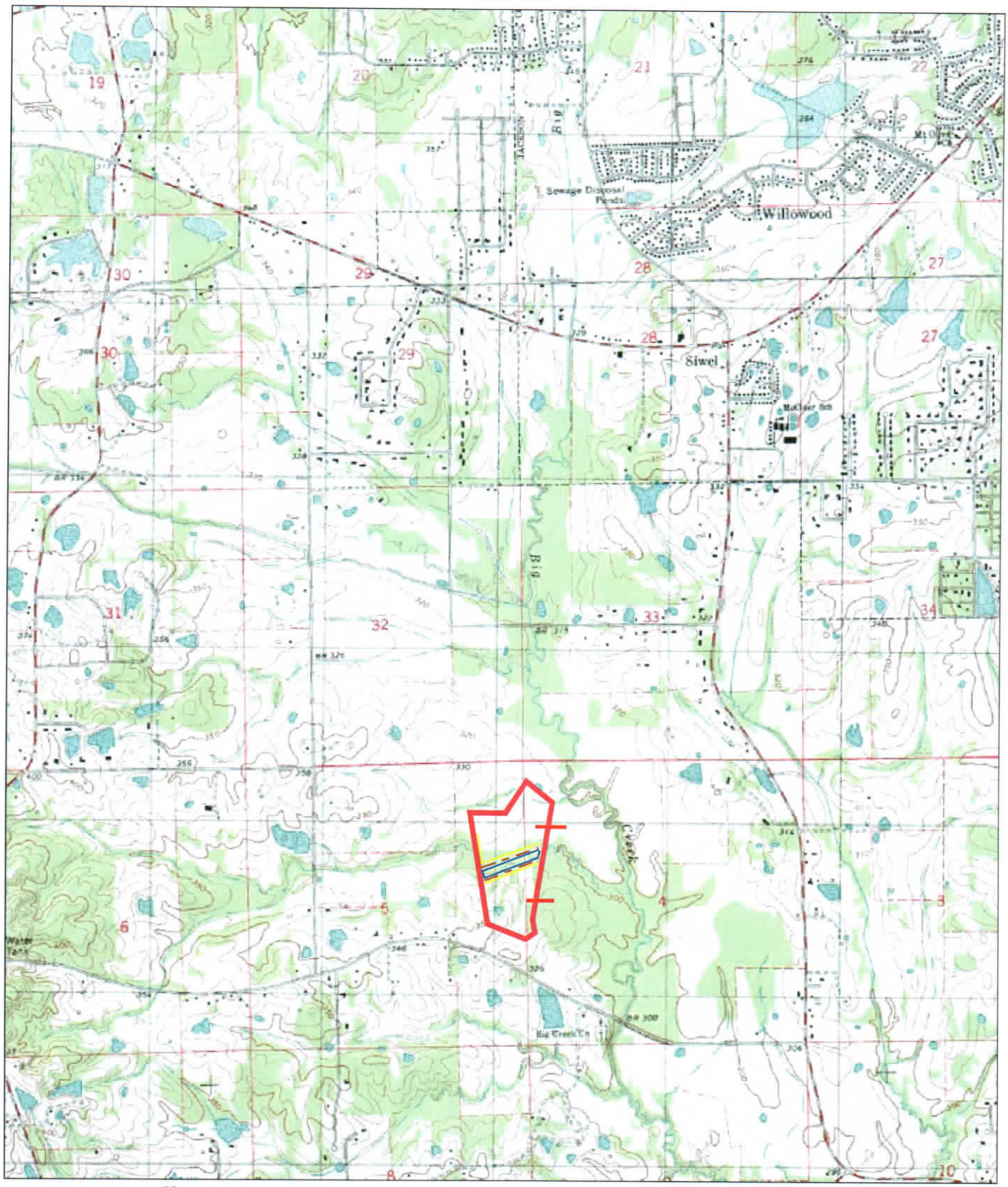
HDR Mine Tract 3 - 60 Acres
MAP #2



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YELLOW LINE: Perimeter Silt Fence

RED LINES: Haul Roads to access Byram Clinton Parkway ROW

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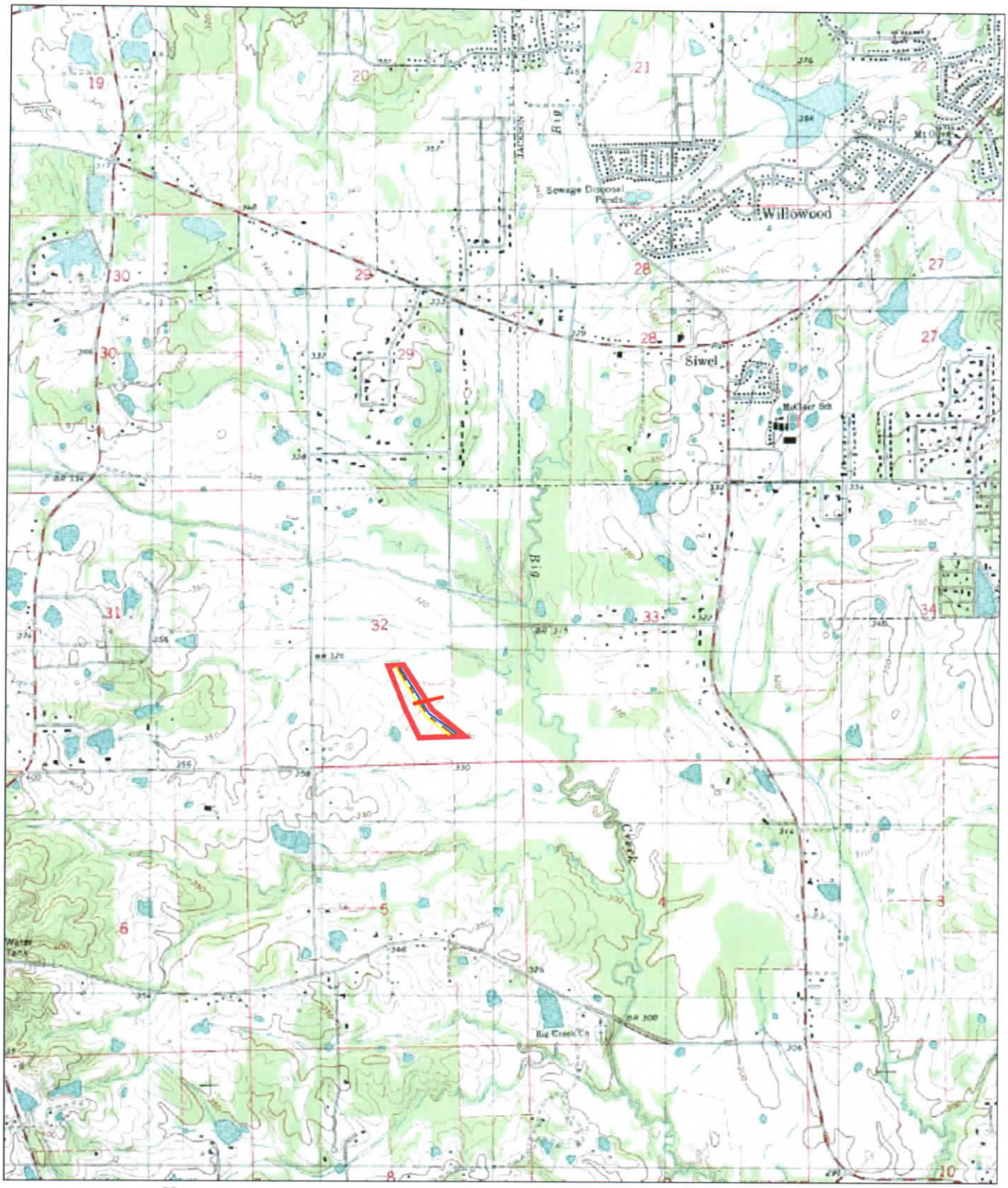
HDR Mine Tract 4 - 15 Acres
MAP #2



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YELLOW LINE: Perimeter Silt Fence

RED LINES: Haul Roads to access Byram Clinton Parkway ROW

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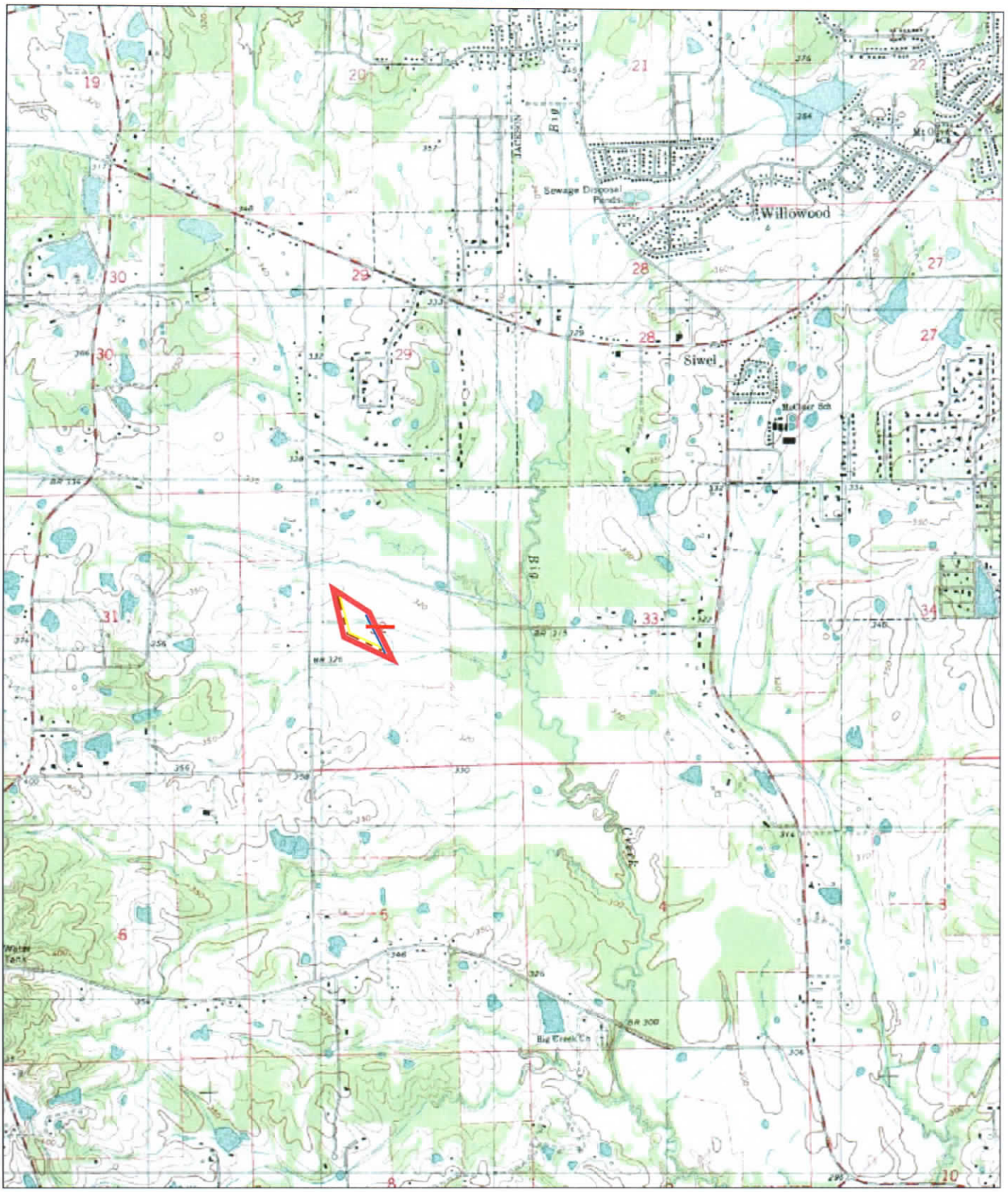
HDR Mine Tract 5 - 14 Acres
MAP #2



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RED LINES: Haul Roads to access Byram Clinton Parkway ROW

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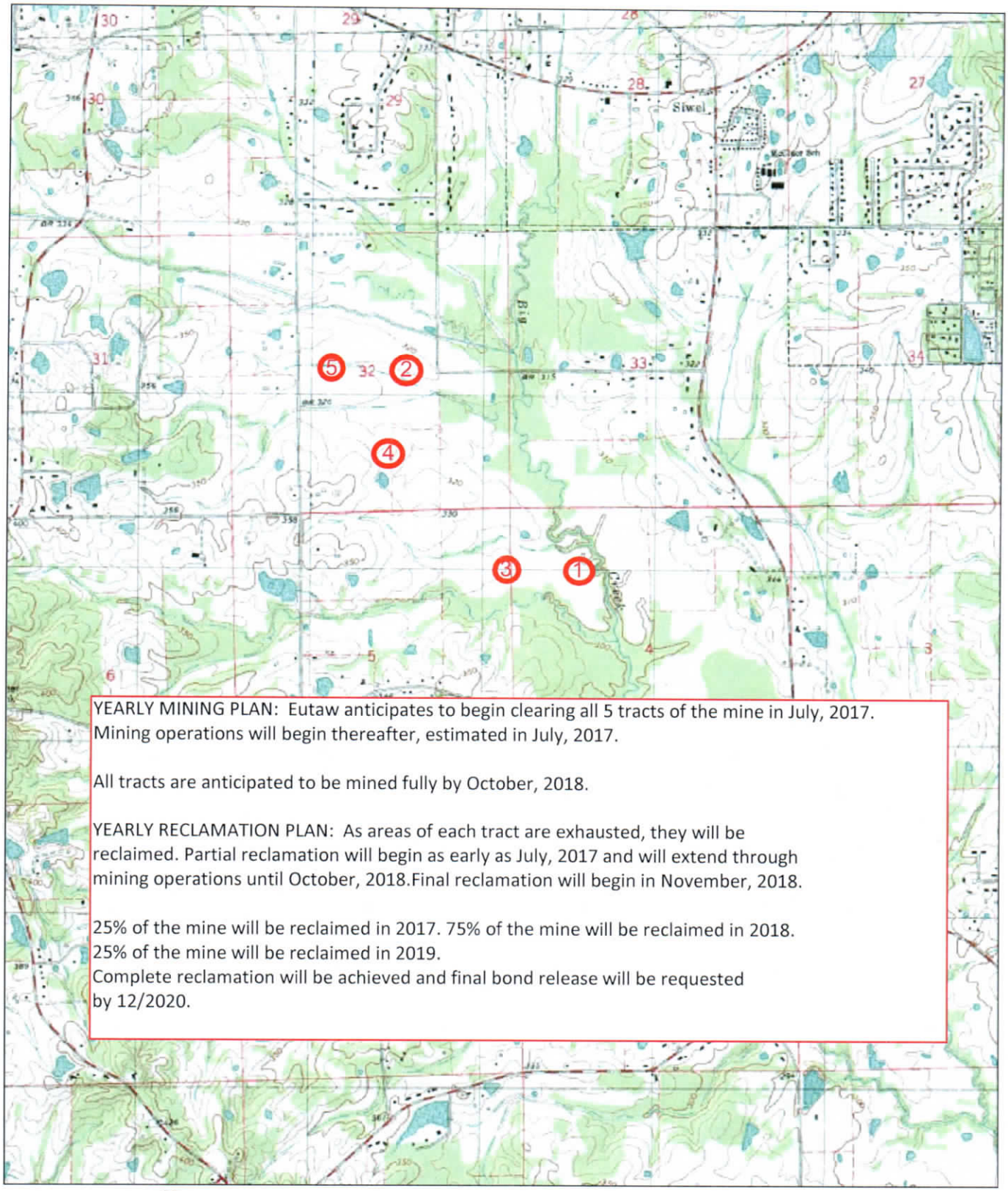
HDR MINE MAPS #3 & #4



YEARLY MINING PLAN: Eutaw anticipates to begin clearing all 5 tracts of the mine in July, 2017. Mining operations will begin thereafter, estimated in July, 2017.

All tracts are anticipated to be mined fully by October, 2018.

YEARLY RECLAMATION PLAN: As areas of each tract are exhausted, they will be reclaimed. Partial reclamation will begin as early as July, 2017 and will extend through mining operations until October, 2018.Final reclamation will begin in November, 2018.

25% of the mine will be reclaimed in 2017. 75% of the mine will be reclaimed in 2018.
25% of the mine will be reclaimed in 2019.
Complete reclamation will be achieved and final bond release will be requested by 12/2020.

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Map provided by MyTopo.com

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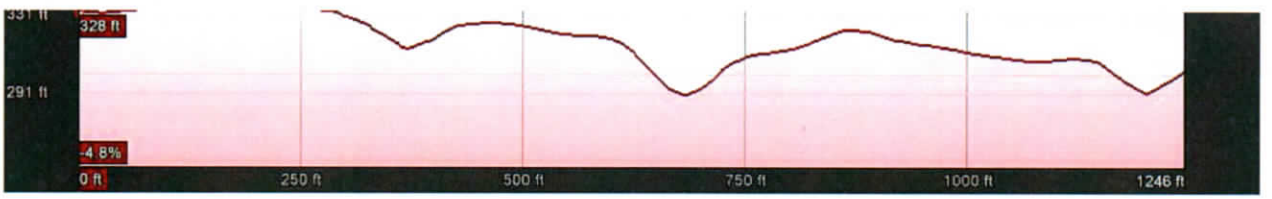
HDR Mine 242 Acres
Parts of S4, T4N, R1W and S5, T4N, R1W
Hinds County, Mississippi
MAP #5
Cross Sections Tract 1

Tract 1 – 143 Acres
Pre-Mining Surface Ground Profile Looking South to North and running West to East
Natural Highest Elevation: 331 ft. - Maximum Elevation Change of 40' to 291 ft.

Post-Mining Surface Ground Profile Looking South to North and running West to East
Average of 5' Cut to EL 326 ft.



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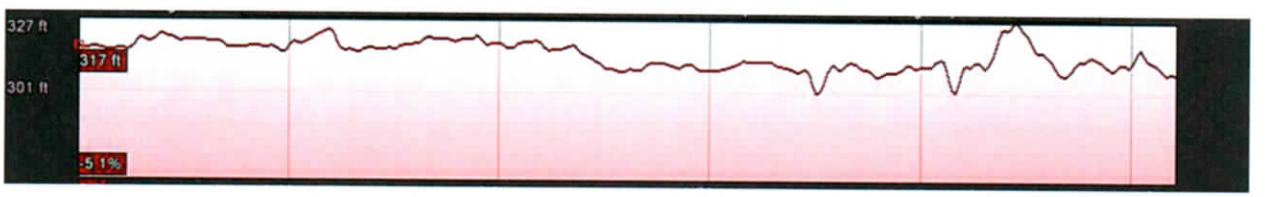
Tract 1 – 143 Acres
Pre-Mining Surface Ground Profile Looking West to East and running North to South
Natural Highest Elevation: 327 ft. - Maximum Elevation Change of 26' to 301 ft.

Post-Mining Surface Ground Profile Looking West to East and running North to South
Average of 5' Cut to EL 322 ft.



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HDR Mine 242 Acres
Parts of S4, T4N, R1W and S5, T4N, R1W
Hinds County, Mississippi
MAP #5
Cross Sections Tract 2

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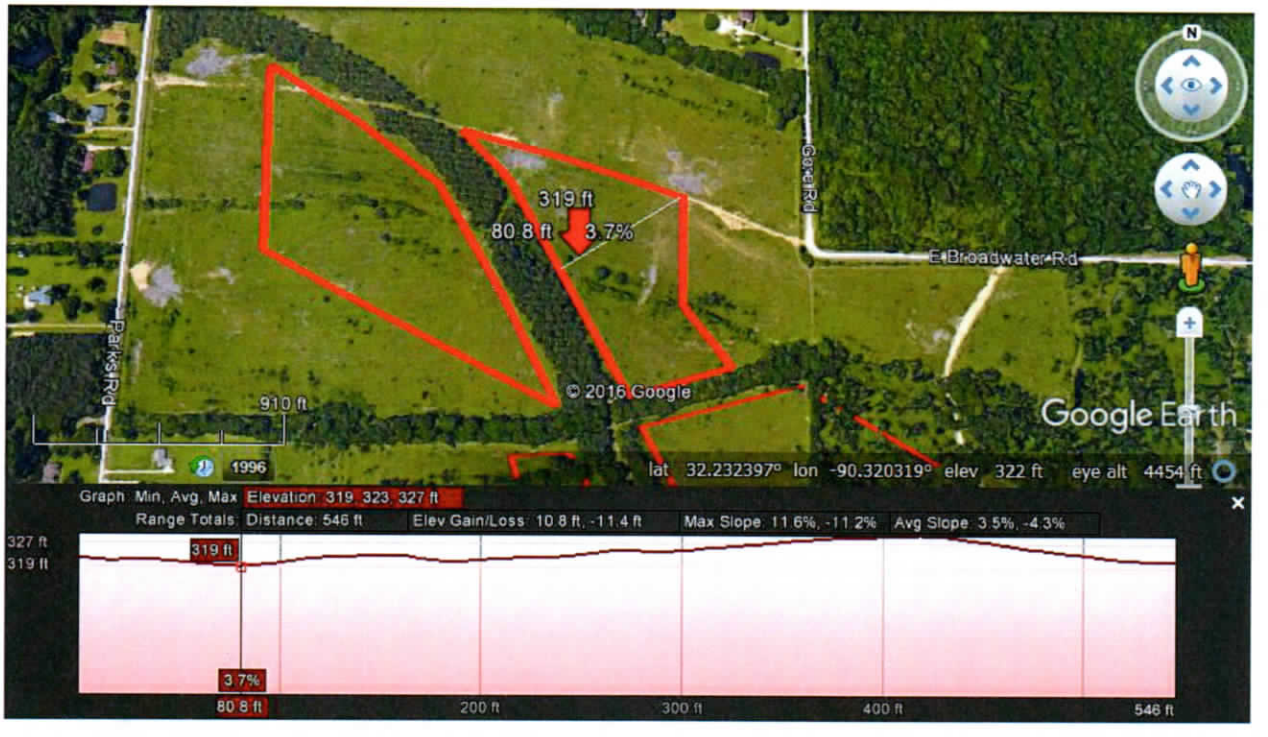
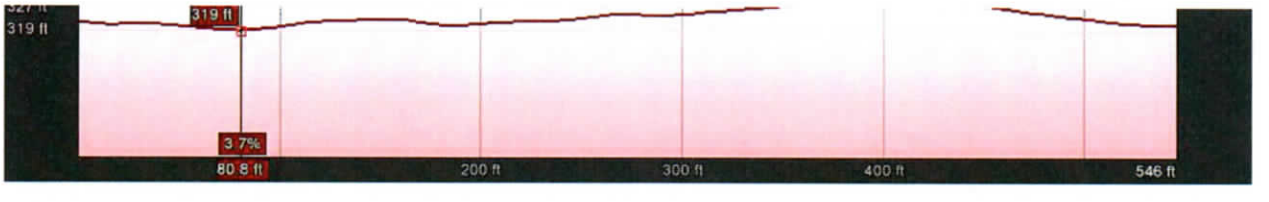
Tract 2 – 10 Acres
Pre-Mining Surface Ground Profile Looking South to North and running West to East
Natural Highest Elevation: 327 ft. - Maximum Elevation Change of 8' to 319 ft.



Post-Mining Surface Ground Profile Looking South to North and running West to East
Average of 5' Cut to EL 322 ft.



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Tract 2 – 10 Acres
Pre-Mining Surface Ground Profile Looking West to East and running North to South
Natural Highest Elevation: 328 ft. - Maximum Elevation Change of 14' to 314 ft.

Post-Mining Surface Ground Profile Looking West to East and running North to South
Average of 5' Cut to EL 323 ft.

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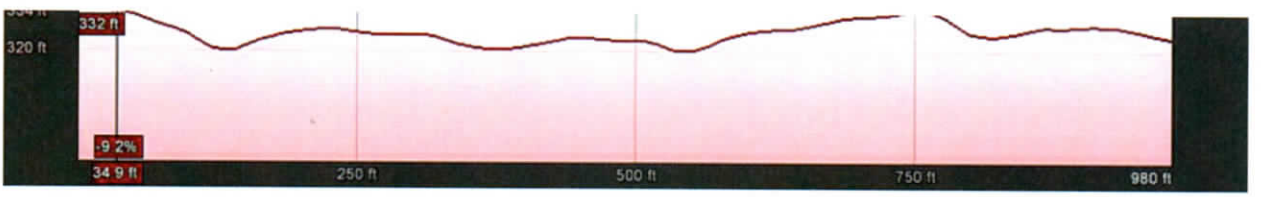
HDR Mine 242 Acres
Parts of S4, T4N, R1W and S5, T4N, R1W
Hinds County, Mississippi
MAP #5
Cross Sections Tract 3

Tract 3 – 60 Acres
Pre-Mining Surface Ground Profile Looking South to North and running West to East
Natural Highest Elevation: 334 ft. - Maximum Elevation Change of 14' to 320 ft.

Post-Mining Surface Ground Profile Looking South to North and running West to East
Average of 5' Cut to EL 329 ft.



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Tract 3 – 60 Acres
Pre-Mining Surface Ground Profile Looking West to East and running North to South
Natural Highest Elevation: 356 ft. - Maximum Elevation Change of 54' to 302 ft.

Post-Mining Surface Ground Profile Looking West to East and running North to South
Average of 5' Cut to EL 351 ft.

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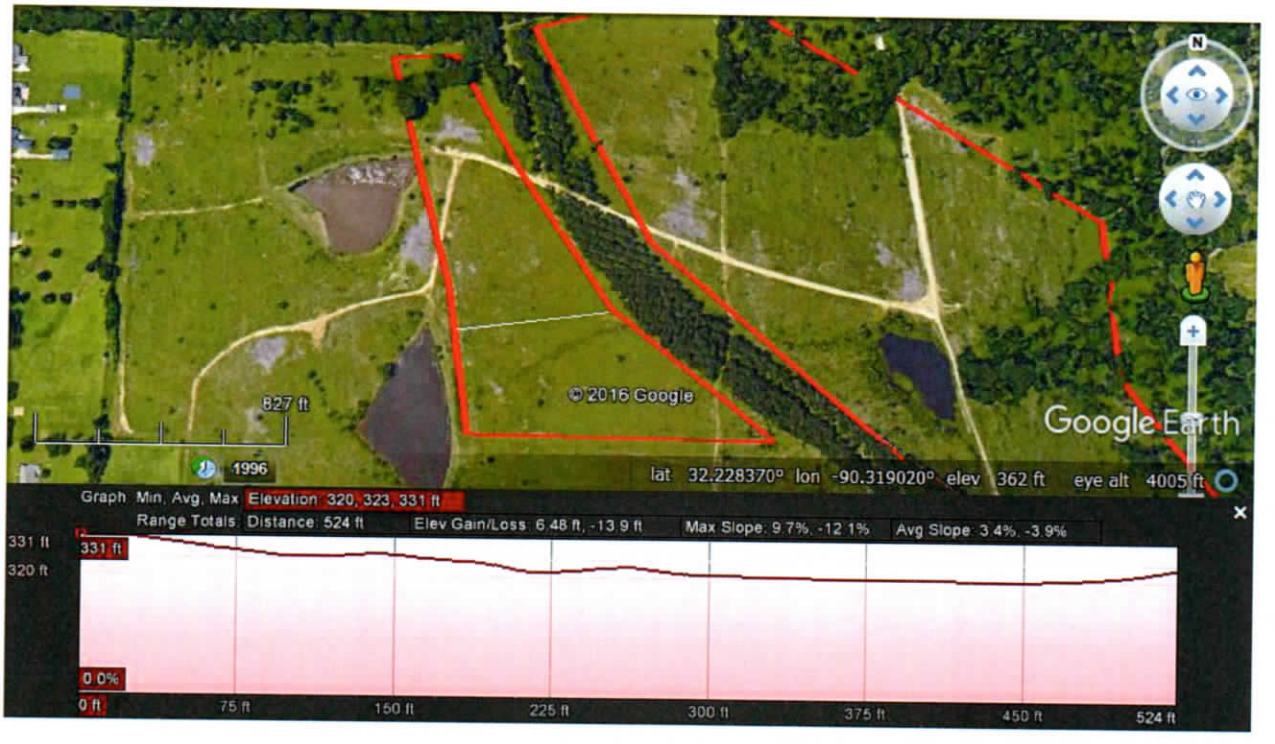
HDR Mine 242 Acres
Parts of S4, T4N, R1W and S5, T4N, R1W
Hinds County, Mississippi
MAP #5
Cross Sections Tract 4

Tract 4 – 15 Acres
Pre-Mining Surface Ground Profile Looking South to North and running West to East
Natural Highest Elevation: 331 ft. - Maximum Elevation Change of 11' to 320 ft.



Post-Mining Surface Ground Profile Looking South to North and running West to East
Average of 5' Cut to EL 326 ft.

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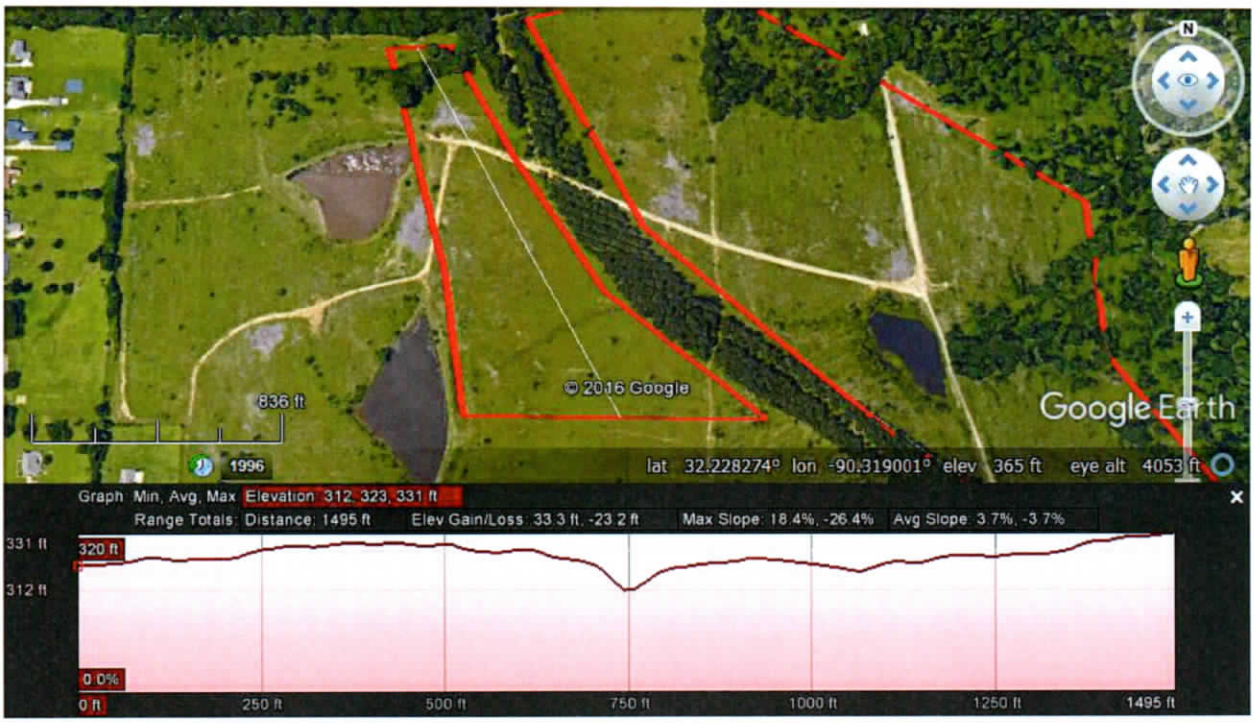
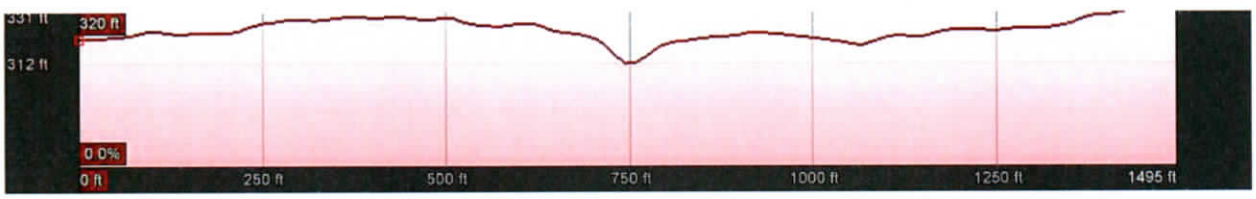
Tract 4 – 15 Acres
Pre-Mining Surface Ground Profile Looking West to East and running North to South
Natural Highest Elevation: 331 ft. - Maximum Elevation Change of 19' to 312 ft.



Post-Mining Surface Ground Profile Looking West to East and running North to South
Average of 5' Cut to EL 326 ft.



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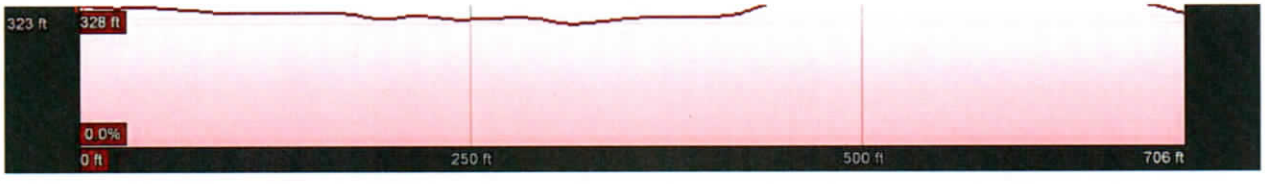
HDR Mine 242 Acres
Parts of S4, T4N, R1W and S5, T4N, R1W
Hinds County, Mississippi
MAP #5
Cross Sections Tract 5

Tract 5 – 14 Acres
Pre-Mining Surface Ground Profile Looking South to North and running West to East
Natural Highest Elevation: 333 ft. - Maximum Elevation Change of 10' to 323 ft.

Post-Mining Surface Ground Profile Looking South to North and running West to East
Average of 5' Cut to EL 328 ft.



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Tract 5 – 14 Acres

Pre-Mining Surface Ground Profile Looking West to East and running North to South

Natural Highest Elevation: 335 ft. - Maximum Elevation Change of 16' to 319 ft.

Post-Mining Surface Ground Profile Looking West to East and running North to South

Average of 5' Cut to EL 330 ft.

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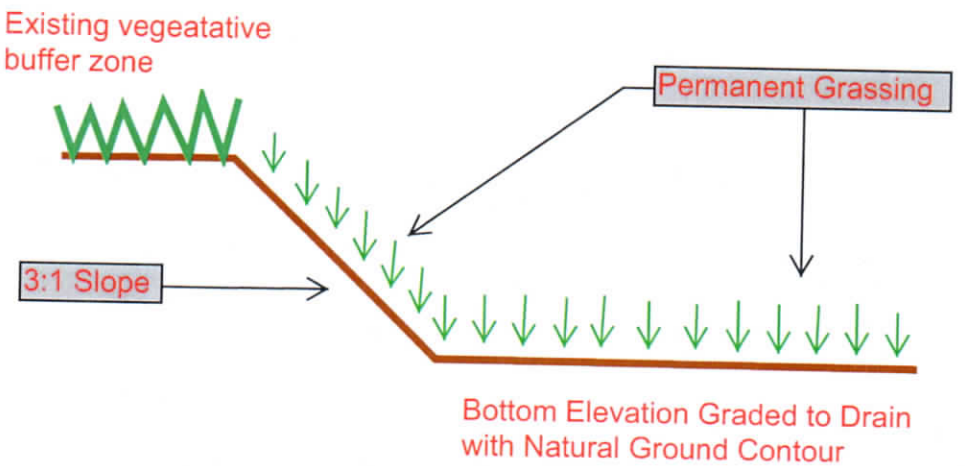
HDR MINE - PARTS OF:
SECTION 4, TOWNSHIP 4N, RANGE 1W and SECTION 5, TOWNSHIP 4N RANGE 1W;
ALL SITUATED IN HINDS COUNTY, MS; APPROXIMATELY 242 ACRES

Map #6



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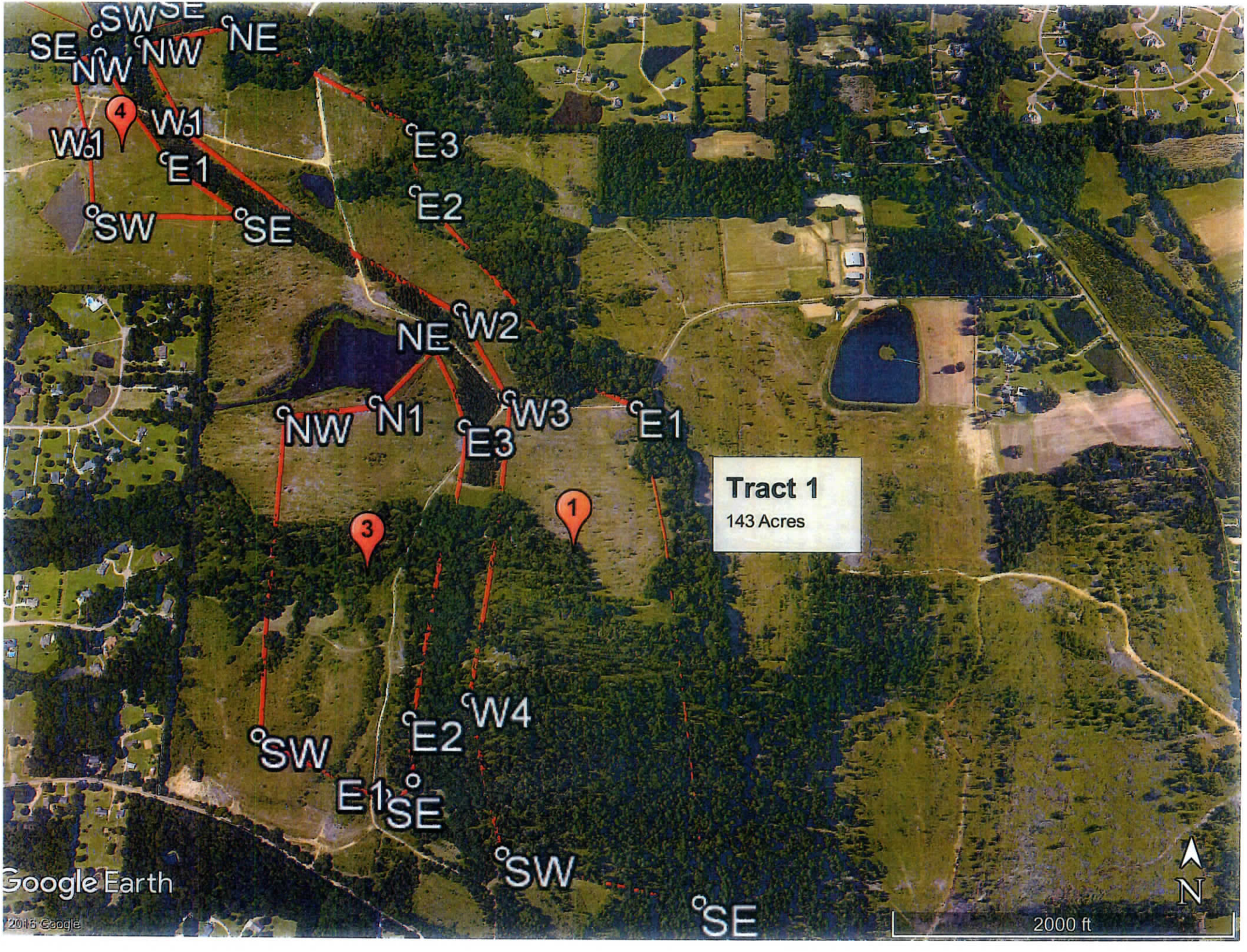
HDR Mine 242 Acres
Parts of S4, T4N, R1W and S5, T4N, R1W
Hinds County, Mississippi

GPS Corner Locations

TRACT 1		
SE	32.2139	-90.3075
E1	32.2226	-90.3087
E2	32.2271	-90.3136
E3	32.2285	-90.3138
NE	32.2309	-90.3181
NW	32.2305	-90.3201
W1	32.2284	-90.3188
W2	32.2246	-90.3125
W3	32.2228	-90.3114
W4	32.2173	-90.3121
SW	32.2147	-90.3113


SW
SE
SE
NW
NW
NE
4
W1
W1
E1
E3
E2
SW
SE
NE
W2
NW
N1
W3
E3
E1
Tract 1
143 Acres
1
3
W4
E2
SW
E1
SE
SW
SE
Google Earth
2016 Google
N
2000 ft

HDR Mine 242 Acres
Parts of S4, T4N, R1W and S5, T4N, R1W
Hinds County, Mississippi

GPS Corner Locations

TRACT 2		
SE	32.2311	-90.3190
E1	32.2317	-90.3196
NE	32.2329	-90.3196
NW	32.2336	-90.3224
W1	32.2331	-90.3218
SW	32.2308	-90.3203

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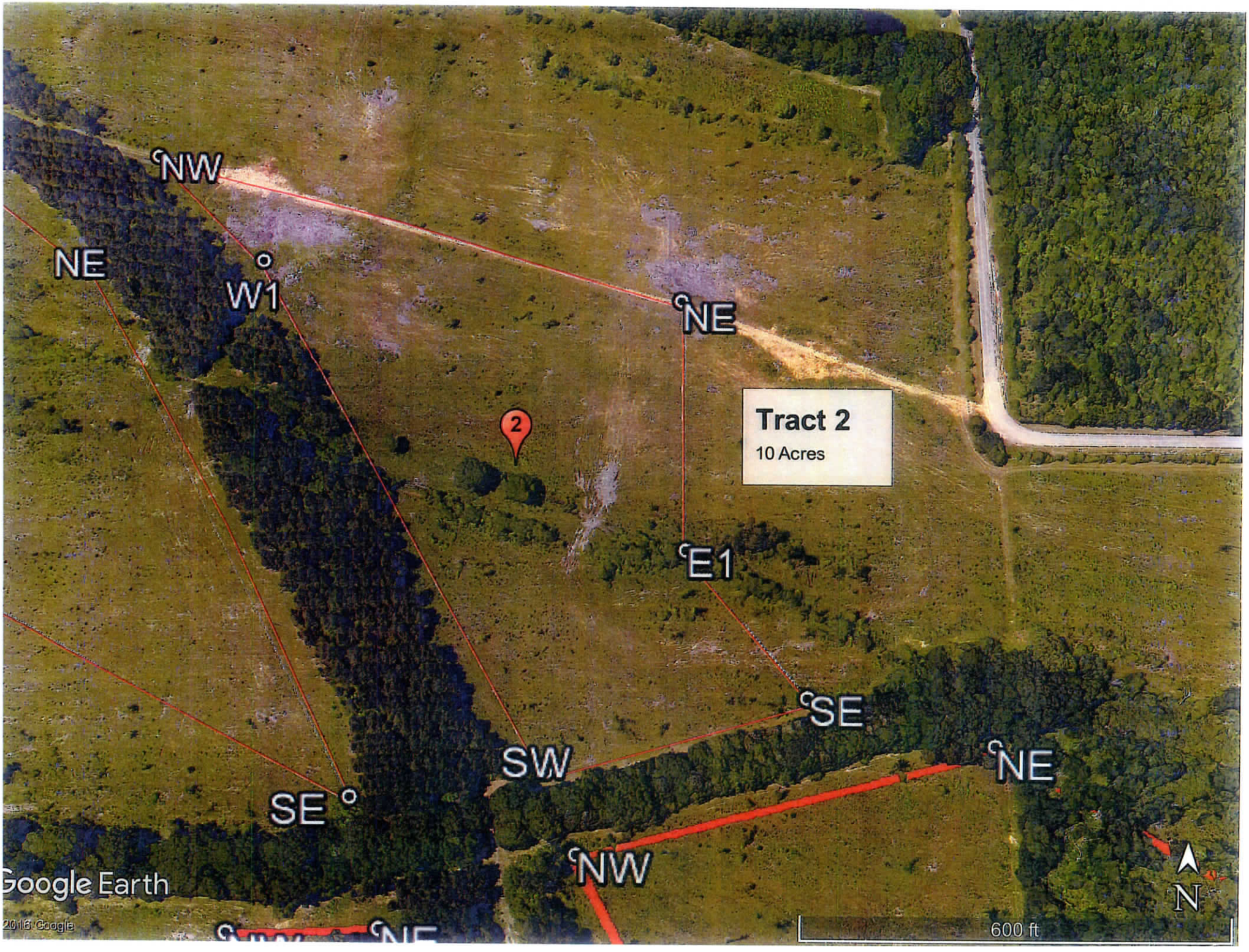
NW
NE
W1
NE
Tract 2
10 Acres
2
E1
SE
SW
NE
SE
NW
N
600 ft
Google Earth
2018 Google

HDR Mine 242 Acres
Parts of S4, T4N, R1W and S5, T4N, R1W
Hinds County, Mississippi

GPS Corner Locations

TRACT 3		
SE	32.2157	-90.3136
E1	32.2159	-90.3131
E2	32.2169	-90.3132
E3	32.2223	-90.3123
NE	32.2239	-90.3131
N1	32.2227	-90.3142
NW	32.2225	-90.3162
SW	32.2166	-90.3162

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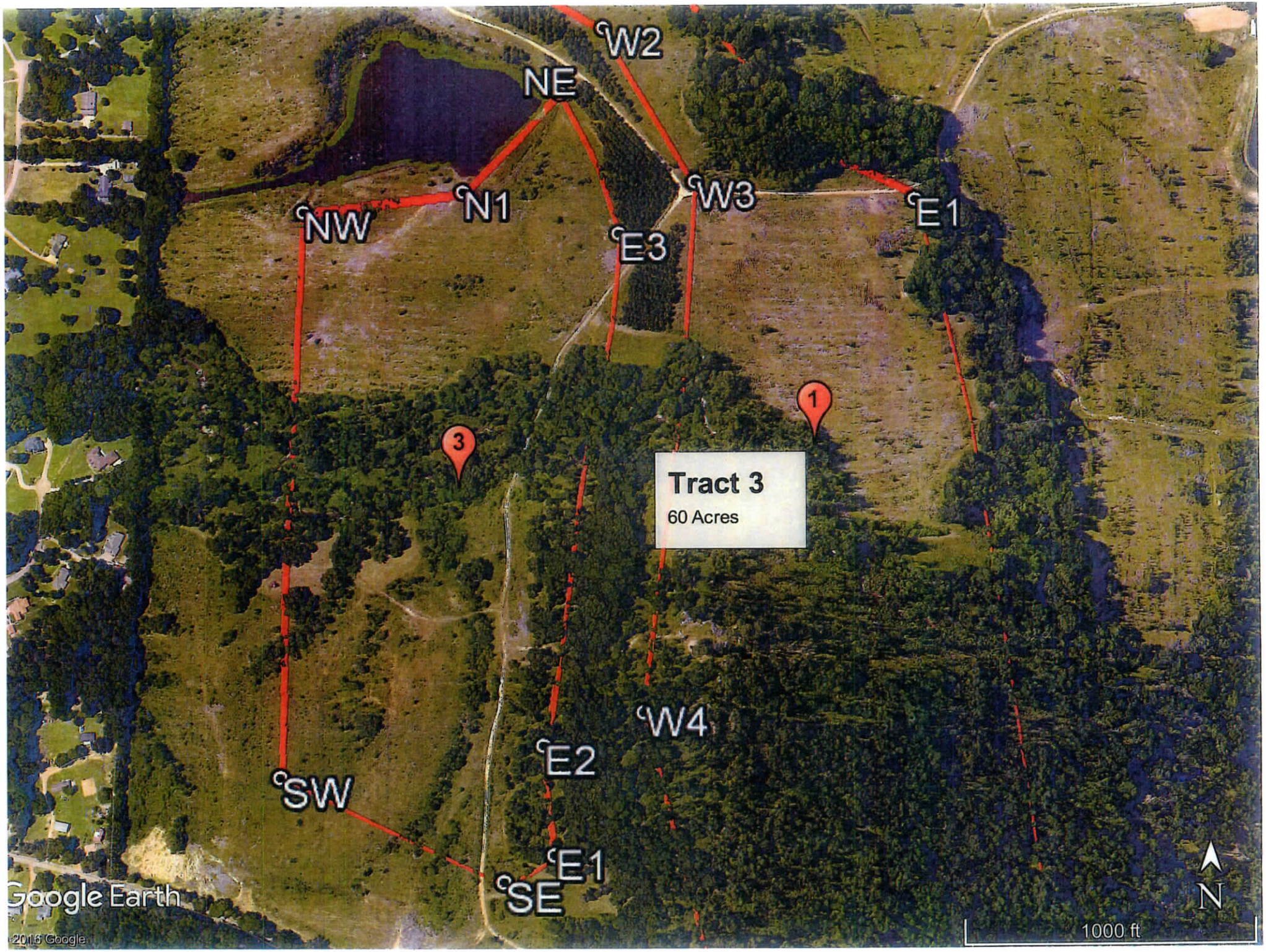
W2
NE
W3
N1
NW
E1
E3
1
3
Tract 3
60 Acres
W4
E2
SW
E1
SE
N
1000 ft
Google Earth
2016 Google

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HDR Mine 242 Acres
Parts of S4, T4N, R1W and S5, T4N, R1W
Hinds County, Mississippi

GPS Corner Locations

TRACT 4		
SE	32.2266	-90.3174
E1	32.2278	-90.3192
NE	32.2302	-90.3210
NW	32.2302	-90.3217
W1	32.2279	-90.3210
SW	32.2266	-90.3207

SE
NW
NW
NE
Tract 4
15 Acres
4
W1
E1
SW
SE
Google Earth
2016 Google
N
600 ft

HDR Mine 242 Acres
Parts of S4, T4N, R1W and S5, T4N, R1W
Hinds County, Mississippi

GPS Corner Locations

TRACT 5		
SE	32.2307	-90.3212
NE	32.2330	-90.3227
NW	32.2343	-90.3249
SW	32.2323	-90.3249

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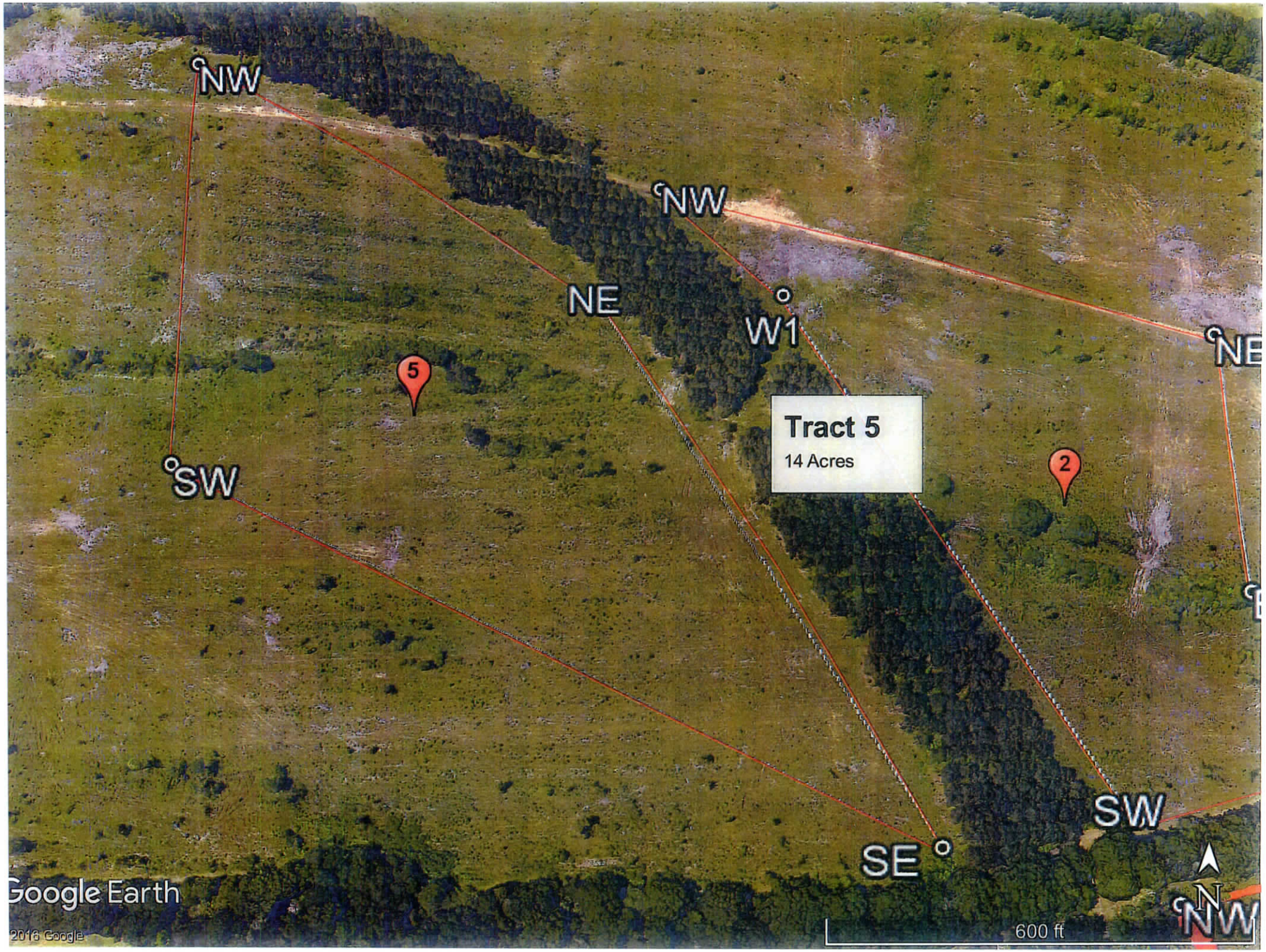
NW
NW
NE
W1
NE
5
Tract 5
14 Acres
2
SW
SW
SE
N
NW
600 ft
Google Earth
2016 Google