



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, MOBILE DISTRICT
P.O. BOX 2288
MOBILE, ALABAMA 36628-0001

CESAM-RD-A

Public Notice Number SAM-2012-01408-LET

March 27, 2013

**JOINT PUBLIC NOTICE
U.S. ARMY CORPS OF ENGINEERS
AND
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF POLLUTION CONTROL**

**REQUEST TO FILL WETLANDS AND WATERS OF THE UNITED STATES AND
PERMANENTLY CONVERT FORESTED WETLANDS TO EMERGENT WETLANDS
ASSOCIATED WITH THE UPGRADE OF AN EXISTING OIL AND GAS FIELD IN WAYNE
COUNTY, MISSISSIPPI.**

TO WHOM IT MAY CONCERN:

This District has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 USC 1344). This public notice is being distributed to all known interested persons to assist in developing facts on which a decision by the Corps can be based. Please communicate this information to interested parties.

APPLICANT: Tellus Operating Group, LLC
Attention: Mr. Clarke Thomas
602 Crescent Place, Suite 100
Ridgeland, Mississippi 39157

AGENT: Headwaters, Inc.
Attention: Mr. J. Clay Cromwell
Post Office Box 820188
Vicksburg, Mississippi 39182-0188

LOCATION OF WORK: The proposed project is located throughout the West Yellow Creek Oil and Gas Field which is located north of U.S. Highway 84 between Eucutta Road and U. S. Highway 45 within Sections 2, 3, 10, 11, 12, 13, 14, 15, 23, 24, and 25 of Township 9 North, Range 8 West and Sections 19 and 30 of Township 9 North, Range 7 West, centered at latitude 31.759597° North and longitude -88.77039° West, in Wayne County, Mississippi. The project would impact multiple wetlands and tributaries to Yellow Creek, Silver Creek, and Jackie Branch. The project is located in the Upper Chickasawhay watershed (8-digit HUC 03170002) in Mississippi.

PROJECT PURPOSE: The applicant has stated that the purpose of the project is to improve the infrastructure within the West Yellow Creek Oil and Gas Field in preparation for the acceptance of

CO₂ for an enhanced oil recovery project utilizing CO₂ and water as the injected fluids. The CO₂ mixes with the oil in the reservoir and swells the oil. The water then pushes the swollen oil to the nearest production well. This CO₂ and water injection process allows for significant recovery beyond the current water-only injection process.

PROPOSED WORK: The applicant proposes to retrofit the existing West Yellow Creek (WYC) Oil and Gas Field infrastructure for an enhanced oil recovery project that would utilize CO₂ and water as the injected fluids to facilitate oil extraction from the formation. The CO₂ would be transported to the WYC CO₂ plant site, which would be centrally located within the WYC Oil and Gas Field, via the Greenleaf CO₂ Solutions, LLC Pachuta to WYC CO₂ transmission line. The Greenleaf CO₂ transmission line was recently authorized by Nationwide Permit under file number SAM-2011-00974-JMT.

The WYC field infrastructure upgrades would include the construction of the CO₂ plant site and injection lines going out to each injector well within the field, replacement and expansion of the existing bare steel production line infrastructure, construction of two additional well sites through improvement of access and existing infrastructure at two well sites that were previously abandoned, construction of eight additional “new drill” well sites, and the improvement and new construction of five tank batteries. Since WYC is an existing oil and gas field, infrastructure such as access roads, overhead power line easements, and most of the pipeline easement alignments are already present in the field.

Injection lines: Because CO₂ and water form a highly corrosive mixture when combined, the CO₂ injection line system must be separate from the water injection system. The CO₂ injection line system would consist of the installation of approximately 11.36 miles of new bare steel pipeline ranging in size from 2-inches to 6-inches in diameter. The water injection system would consist of approximately 10.41 miles of new fiberglass or composite pipeline ranging in size from 2-inches to 6-inches in diameter.

Production lines: When the CO₂ is produced with the well fluids (oil and water) the produced stream is highly corrosive to bare steel. Therefore, since the existing production line infrastructure is bare steel, the entire production infrastructure would be upgraded through installation of new fiberglass production lines from each well to a satellite gathering site that will take the production for 6 to 10 wells and separate out the liquids. The new production infrastructure would consist of approximately 20.83 miles of new fiberglass pipeline ranging from 3-inches to 8-inches in diameter. The planned pipeline easements would, for the most part parallel existing easements connecting the injection wells and producing wells to the processing plant.

The injection and production pipelines would be constructed paralleling existing easements within new variable width rights-of way ranging from 50-feet to 100-feet in width. The pipelines would be installed using open trench methods and the material from trench excavation would be temporarily sidecast within the right-of-way until completion of the project. The materials used to backfill the open trenches would be clean, free of contaminant silty clay loams, and in most cases would be the same materials that were previously excavated. All construction activities for each pipeline, including trenching and temporary sidecasting, would remain within the defined right-of-way width. The total right-of-way width would be maintained as emergent wetland habitat where the rights-of-way cross wetlands; therefore all forested and scrub-shrub wetland crossings within

the field are being considered permanent habitat conversion impacts. All crossings of streams, open waters, and existing emergent wetlands are being considered temporary impacts as each crossing would be restored as closely as practicable to pre-construction contours and conditions upon completion of the project. Pipeline installation and right-of-way establishment would result in the permanent conversion of 6.684 acres of hardwood forested and scrub-shrub wetlands to emergent wetlands and temporary impacts to approximately 1,191 linear feet (0.495 acres) of stream and 0.593-acre of existing emergent wetlands.

Well sites: Four “new drill” injection well sites (ND INJ 7, 9, 18, and 20) and four “new drill” production well sites (ND PROD 5, 10, 13, and 14) would be installed. Each of the eight “new drill” well sites would be 250-feet by 250-feet or 1.43 acres in size. The construction of “new drill” injection site 9 would require the permanent discharge of fill material into 1.011 acres of jurisdictional wetland and waters of the United States. The 1.011 acres of permanent impacts include 0.024-acre of open water and 0.987-acre of scrub-shrub wetlands.

Tank battery sites: Each of four of the tank battery sites would be 350-feet by 350-feet or 2.81 acres in size. The fifth tank battery (Tank Battery 1) is planned to be approximately 0.89 acres in size.

AVOIDANCE & MINIMIZATION: During the planning stages of this project layout and design factors were evaluated to ensure the maximum avoidance and minimization of impacts to aquatic resources. Tank battery sites were relocated, or in the case of Tank Battery 1, the footprint was reduced from 2.81 acres to 0.89-acre to avoid impacts to wetlands. Right-of-way alignments were also shifted closer to existing easements within the field in order to minimize the permanent forested wetland conversion impacts of the project from 8.782 acres to the currently proposed 6.684 acres. However, in some instances, the layout of the field and underlying formation would not allow for minimization or complete avoidance of impacts to aquatic resources. The Corps has not verified the adequacy of the applicants’ avoidance and minimization statements at this time.

MITIGATION: The applicant proposes to perform all required mitigation measures to compensate for unavoidable impacts to aquatic resources through the restoration of additional bottomland hardwood forested wetland acreage at the Cohay Conservation Area, which is an existing permittee responsible Tellus mitigation area located in Smith County, Mississippi. The Cohay Conservation Area is located on tributaries to Oakohay Creek between the towns of Raleigh and Mize within Section 33 of Township 2 North, Range 7 East in Smith County within the 03170004 Upper Leaf watershed. Restoration of additional bottomland hardwood wetland acreage within the Cohay Conservation Area would provide in-kind mitigation located within a different 8-digit watershed than the proposed impacts but within the Pascagoula River Basin which is the same river basin as the impact site. Also, restoration of additional wetland acreage within the Cohay Conservation Area would further enhance the on-going efforts to restore the historic bottomland hardwood forested wetlands that existed within the Pascagoula River Basin. During the evaluation of the proposed project a more detailed habitat value assessment (WRAP) of both the proposed project impacts and the mitigation site would be completed to facilitate the preparation of a final compensatory mitigation plan at the Cohay Conservation Area. The Corps has not verified the adequacy of the applicant’s mitigation proposal at this time.

WATER QUALITY: The applicant has applied for certification from the State of Mississippi in accordance with Section 401(a) (1) of the Clean Water Act, and upon completion of the required advertising, a determination relative to certification will be made by the Mississippi Department of Environmental Quality.

HISTORIC PROPERTIES: In accordance with Section 106 of the National Historic Preservation Act and Appendix C of 33 CFR 325, the undertaking defined in this notice is being considered for the potential to affect cultural and historic properties within the permit area. Although the extent of federal control and responsibility for these considerations are confined to the limits of the permit area for this project, the potential indirect effects that may occur to historic properties as a result of this undertaking is also being considered. In addition to the State Historic Preservation Officer (SHPO), we are seeking comment from the federally-recognized American Indian tribes, local historical societies, museums, universities, the U.S. Department of the Interior, National Park Service, Division of Archeological Services, and concerned citizens regarding the existence or the potential for existence of significant cultural and historic properties within the permit area. The National Register of Historic Places will be consulted for properties listed in or eligible for the National Register which are known to exist and would be affected by the proposed work. This review constitutes the full extent of cultural resources investigations unless comment to this notice is received documenting that significant sites or properties exist which may be affected by this work, or that adequately documents that a potential exists for the location of significant sites or properties within the permit area. Additional notification is being furnished to the State Historic Preservation Officer via this Public Notice.

ENDANGERED SPECIES: Based on initial review of information provided in the project application and the U.S. Department of the Interior's list of Endangered and Threatened Wildlife and Plants, the Corps has preliminarily determined the proposed activities "**May Affect**" Federally-listed species. There is no listed critical habitat within the project area. The applicant has indicated they have already begun coordination with the U. S. Fish and Wildlife Service (FWS) as part of their initial project planning and this coordination is on-going. The Corps coordination of the project with the U. S. Fish and Wildlife Service is being initiated via this Public Notice.

This public notice is being distributed to all known interested persons in order to assist in developing facts on which a decision by the U.S. Army Corps of Engineers (Corps) can be based. For accuracy and completeness of the record, all data in support of or in opposition to the proposed work should be submitted in writing setting forth sufficient detail to furnish a clear understanding of the reasons for support or opposition. The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and use of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments.

All factors which may be relevant to the proposals will be considered, including the cumulative effects thereof: among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water

quality, energy needs, safety, food production, and in general, the needs and welfare of the people.

The Corps is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes, and other interested parties in order to consider and evaluate the impacts of the proposed activities. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for these proposals. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state with particularity, the reasons for holding a public hearing.

Evaluation of the probable impacts involving deposits of dredged or fill material into waters of the United States will include the application of guidelines established by the Administrator of the U.S. Environmental Protection Agency.

Correspondence concerning this Public Notice should refer to **SAM-2012-01408-LET** and should be directed to:

District Commander, U.S. Army Engineer District, Mobile
Attention: Regulatory Division (RD-A)
Post Office Box 2288
Mobile, Alabama 36628-0001

With a copy furnished to:

Mississippi Department of Environmental Quality
Office of Pollution Control
Environmental Permits Division
Post Office Box 2261
Jackson, Mississippi 39225-2261

Comments should be received **no later than 30 days** from the date of this Public Notice.

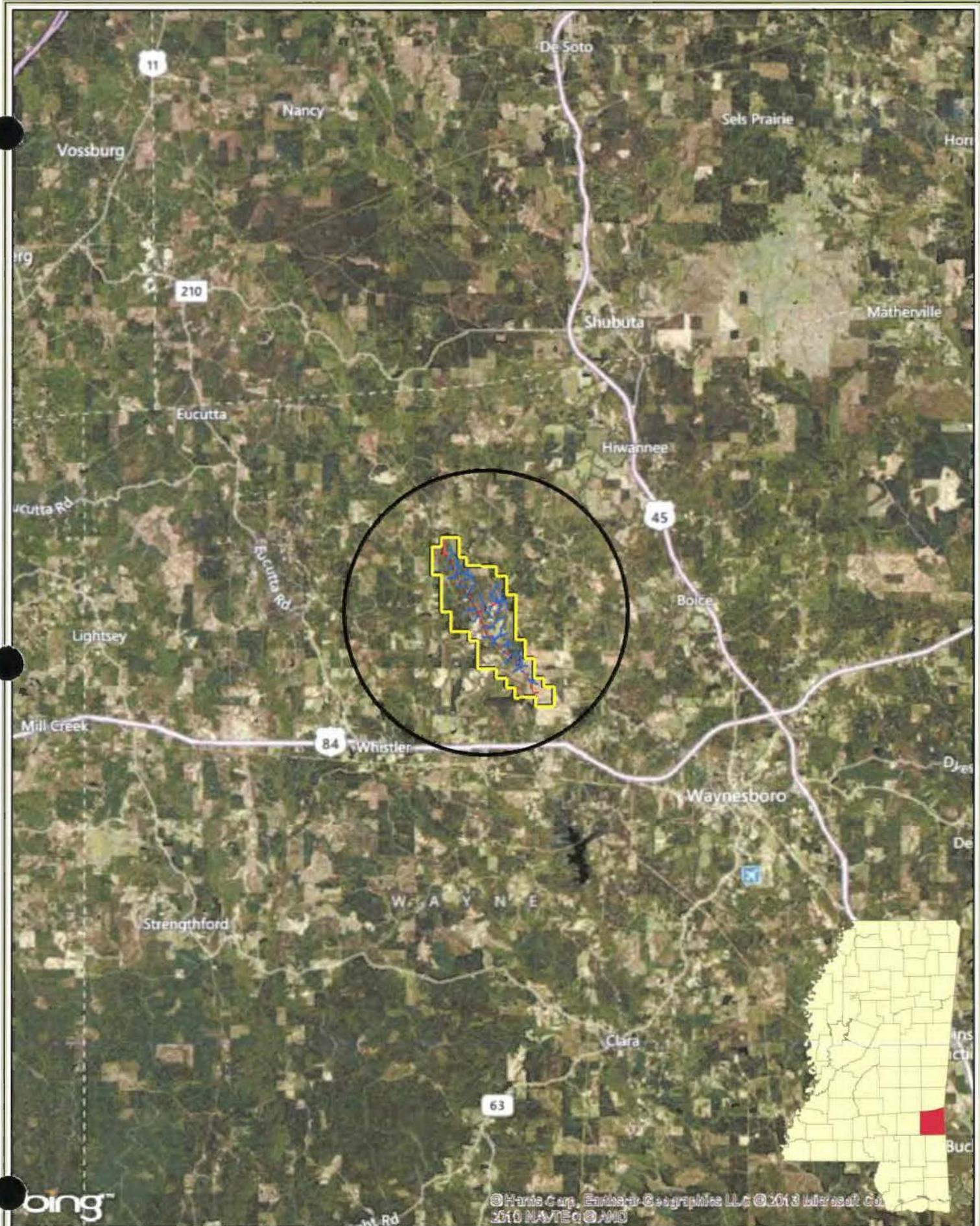
If you have any questions concerning this publication, you may contact the project manager, leslie.e.turney@usace.army.mil or telephone number **(251) 694-3873**. Please refer to Public Notice Number SAM-2012-01408-LET.

For additional information about our Regulatory Program or to view this public notice electronically, please visit our web site at: www.sam.usace.army.mil/Missions/Regulatory.aspx,

and please take a moment to complete our customer satisfaction survey while you're there. Your responses are appreciated and will allow us to improve our services.

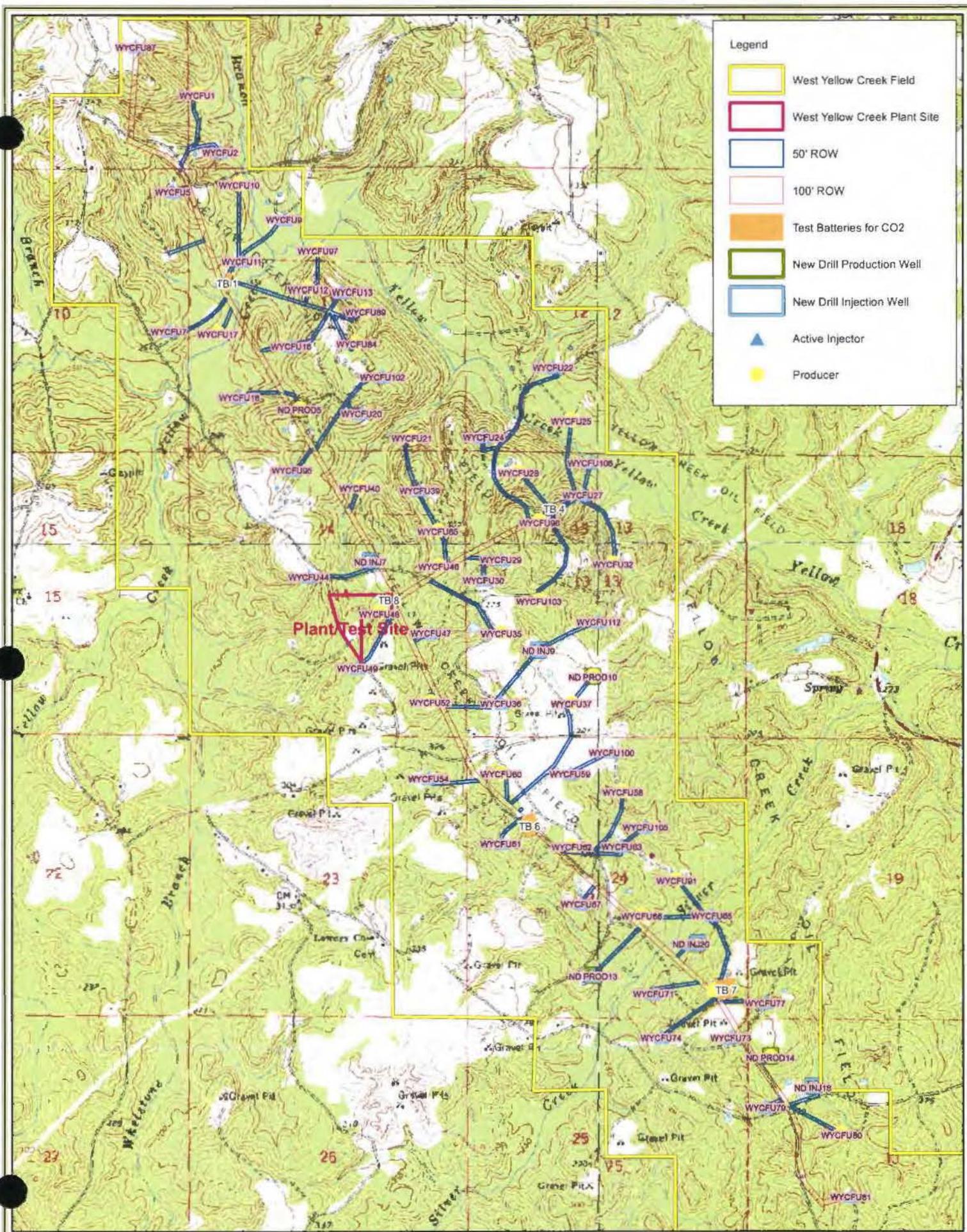
MOBILE DISTRICT
U.S. Army Corps of Engineers

Enclosures



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Tellus Operating Group, LLC
WYC Field Retrofit for CO2 Project
Wayne County, Mississippi
[General Location Map](#)

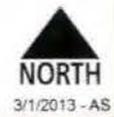
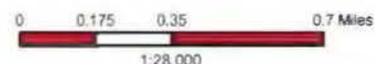


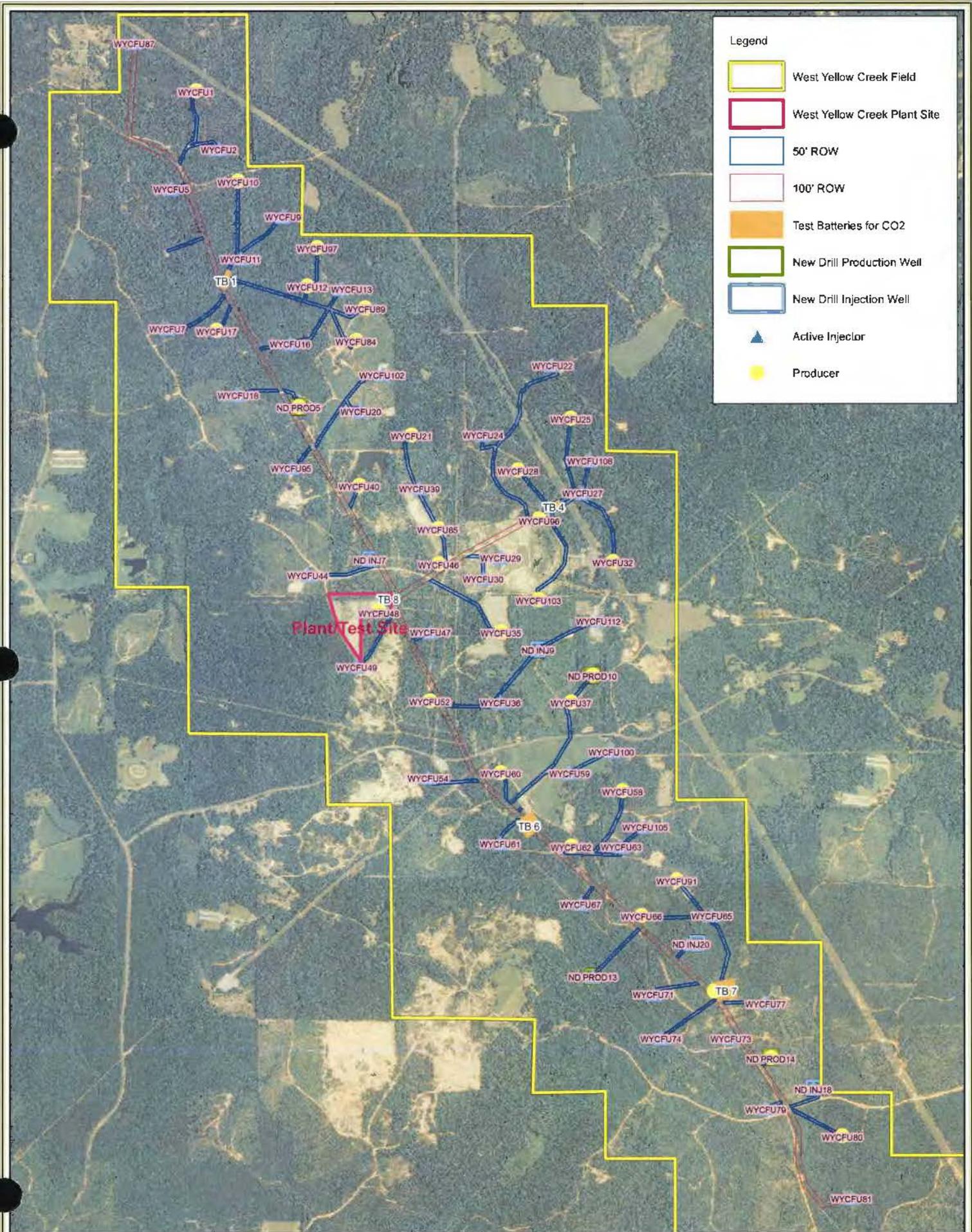
Legend

- West Yellow Creek Field
- West Yellow Creek Plant Site
- 50' ROW
- 100' ROW
- Test Batteries for CO2
- New Drill Production Well
- New Drill Injection Well
- ▲ Active Injector
- Producer

Tellus Operating Group, LLC
 WYC Field Retrofit for CO2 Project
 Wayne County, Mississippi

Site Location Map



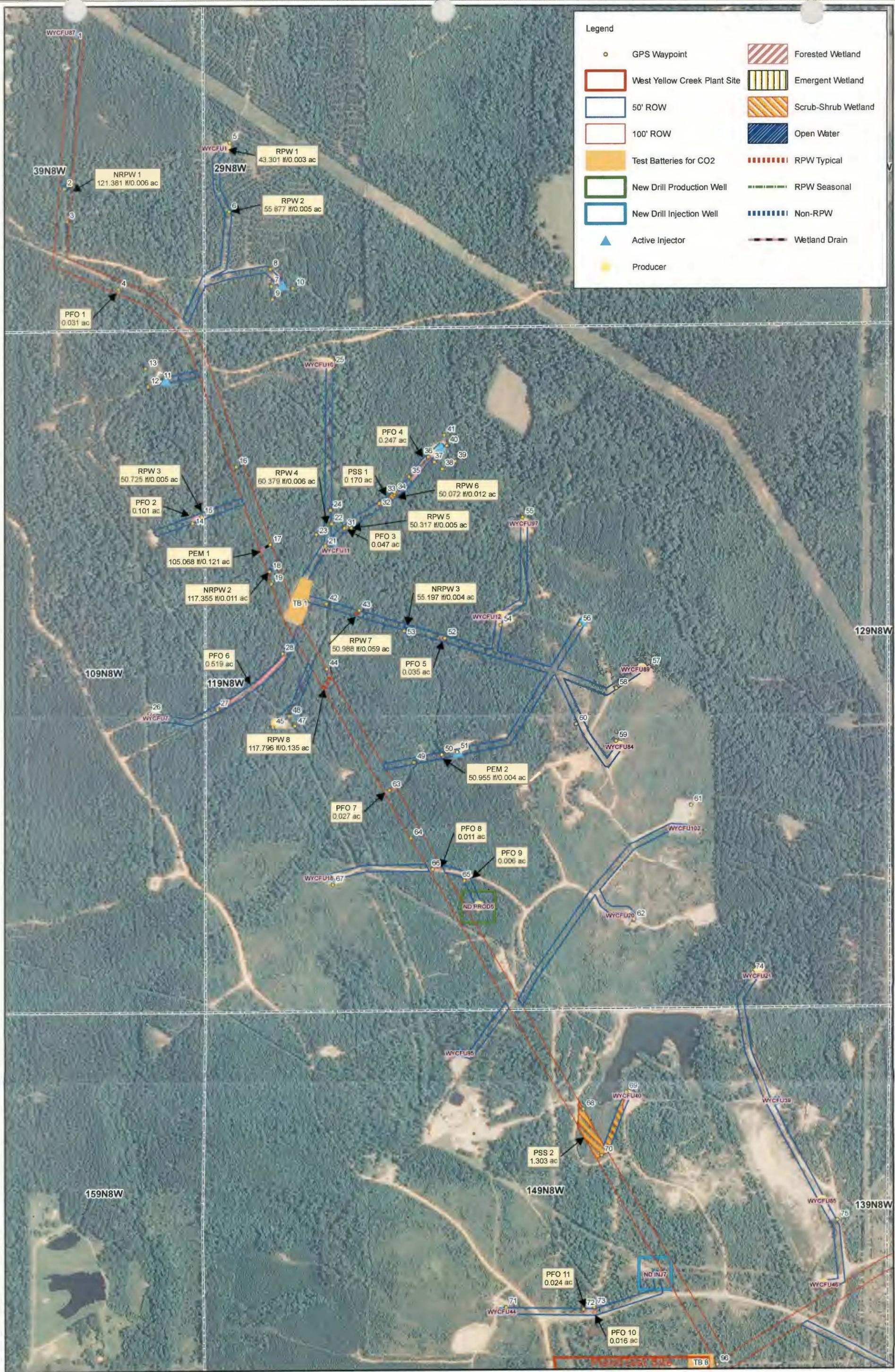


Legend

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Tellus Operating Group, LLC
WYC Field Retrofit for CO2 Project
Wayne County, Mississippi

[Site Location Map](#)

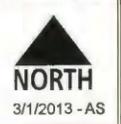
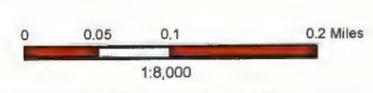


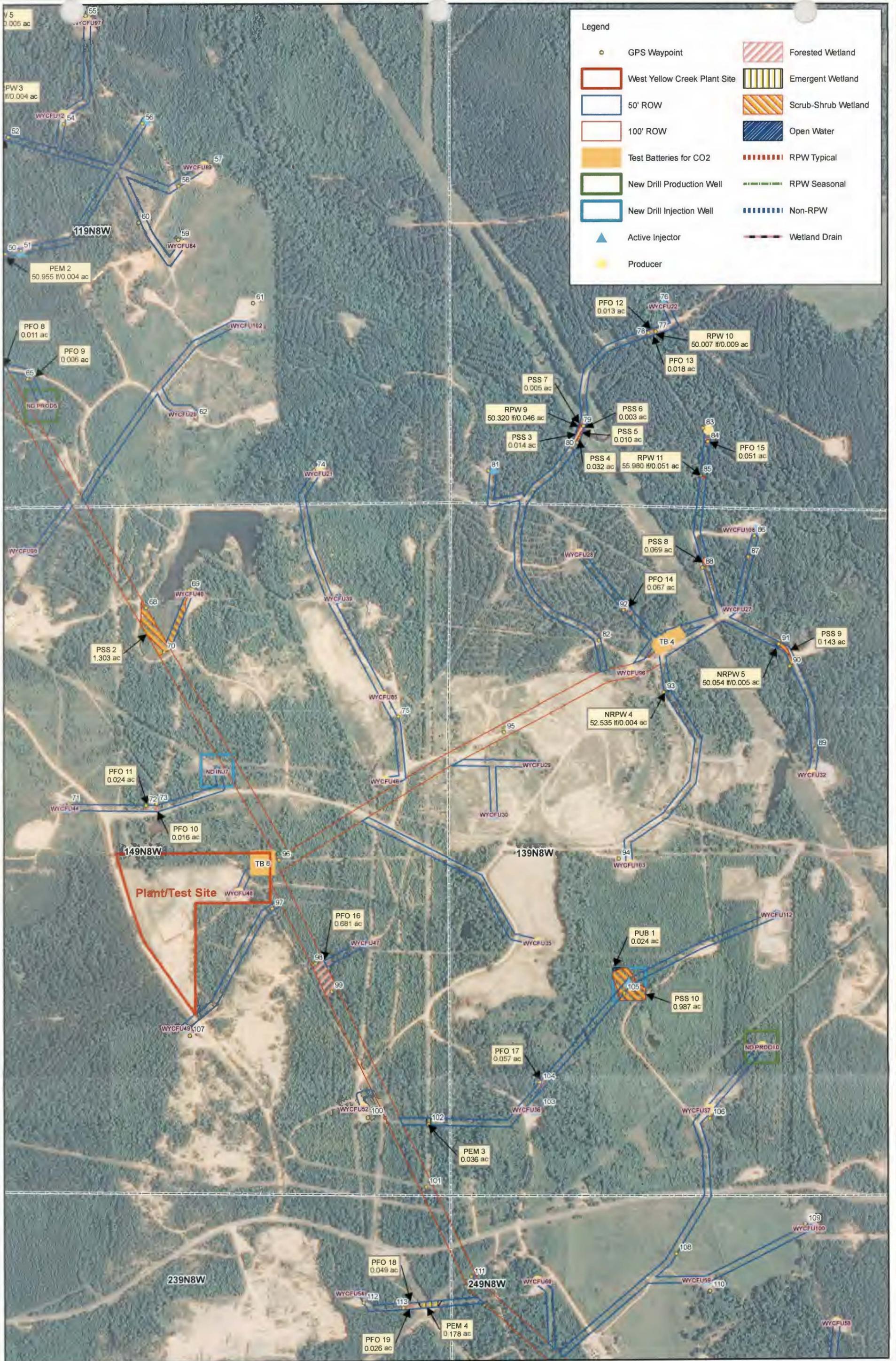
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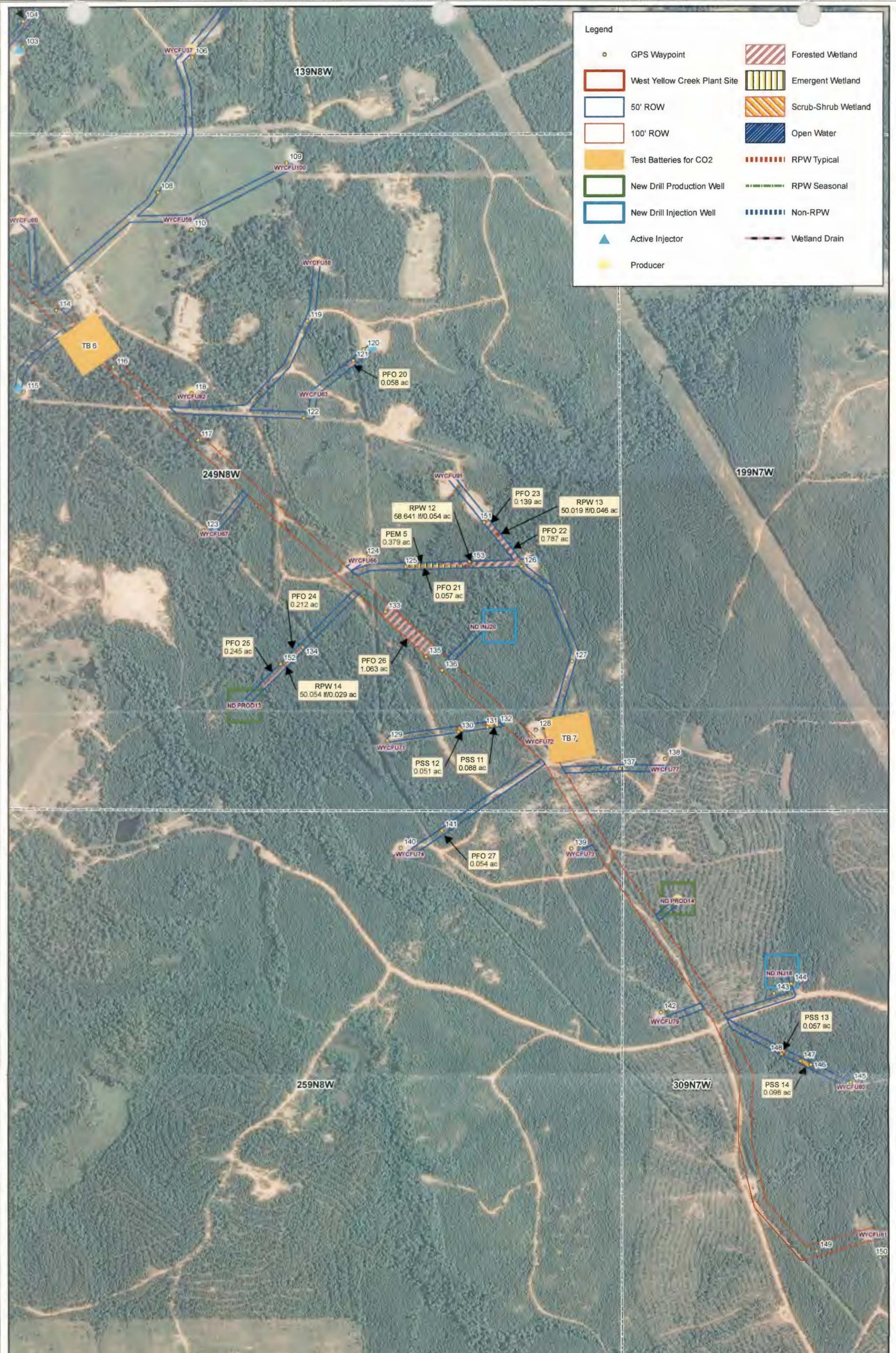
	GPS Waypoint		Forested Wetland
	West Yellow Creek Plant Site		Emergent Wetland
	50' ROW		Scrub-Shrub Wetland
	100' ROW		Open Water
	Test Batteries for CO2		RPW Typical
	New Drill Production Well		RPW Seasonal
	New Drill Injection Well		Non-RPW
	Active Injector		Wetland Drain
	Producer		

Map 1

Tellus Operating Group, LLC
 WYC Field Retrofit for CO2 Project
 Wayne County, Mississippi
 GPS/Wetland Location Map







Legend			
○	GPS Waypoint		Forested Wetland
	West Yellow Creek Plant Site		Emergent Wetland
	50' ROW		Scrub-Shrub Wetland
	100' ROW		Open Water
	Test Batteries for CO2		RPW Typical
	New Drill Production Well		RPW Seasonal
	New Drill Injection Well		Non-RPW
	Active Injector		Wetland Drain
	Producer		

WETLAND LOCATION WORKSHEET



TELLUS OPERATING GROUP, LLC

WYC Field Retrofit For CO2 Project

Well Name	Water Body Name	Waypoint	Latitude (DD)	Longitude (DD)	SEC	T & R	Description (Current)	Length	Width	Total Acreage	Temporary Impact	Conversion of Habitat	Permanent Fill	Nature of Activity
	NRPW 1	2	N31.772421	W88.778416	3	9N, 8W	Non-RPW	121.381	2	0.006	0.006			Temporary Crossing
	PFO 1	4	N31.770265	W88.777085	3	9N, 8W	Forested Wetland			0.031		0.031		Conversion for ROW Construction
	RPW 1	5	N31.773384	W88.774326	2	9N, 8W	RPW Seasonal	43.301	3	0.003	0.003			Temporary Crossing
	RPW 2	6	N31.771908	W88.774342	2	9N, 8W	RPW Seasonal	55.877	4	0.005	0.005			Temporary Crossing
	RPW 3	15	N31.765437	W88.775034	10	9N, 8W	RPW Seasonal	50.725	4	0.005	0.005			Temporary Crossing
	PFO 2	14	N31.765296	W88.775256	10	9N, 8W	Forested Wetland			0.101		0.101		Conversion for ROW Construction
	PEM 1	17	N31.764832	W88.773332	11	9N, 8W	Wetland Drain	105.068	50	0.121	0.121			Temporary Crossing
	NRPW 2	18	N31.764252	W88.77335	11	9N, 8W	Non-RPW	117.355	4	0.011	0.011			Temporary Crossing
	RPW 4	22	N31.765275	W88.771815	11	9N, 8W	RPW Seasonal	60.379	4	0.006	0.006			Temporary Crossing
	PFO 3	31	N31.765174	W88.771493	11	9N, 8W	Forested Wetland			0.047		0.047		Conversion for ROW Construction
	RPW 5	30	N765180	W88.771327	11	9N, 8W	RPW Seasonal	50.317	4	0.005	0.005			Temporary Crossing
	PSS 1	32	N31.765701	W88.770637	11	9N, 8W	Scrub-Shrub Wetland			0.170		0.170		Conversion for ROW Construction
	RPW 6	34	N31.765932	W88.770248	11	9N, 8W	RPW Typical	50.072	10	0.012	0.012			Temporary Crossing
	PFO 4	35	N31.766266	W88.769898	11	9N, 8W	Forested Wetland			0.247		0.247		Conversion for ROW Construction
	RPW 7	43	N31.763423	W88.771113	11	9N, 8W	RPW Typical (Yellow Creek)	50.988	50	0.059	0.059			Temporary Crossing
	NRPW 3	53	N31.762989	W88.770019	11	9N, 8W	Non-RPW	55.179	3	0.004	0.004			Temporary Crossing
	PFO 5	52	N31.762826	W88.769012	11	9N, 8W	Forested Wetland			0.035		0.035		Conversion for ROW Construction
	PFO 6	27	N31.76134	W88.774639	11	9N, 8W	Forested Wetland			0.519		0.519		Conversion for ROW Construction
	RPW 8	44	N31.762189	W88.771941	11	9N, 8W	RPW Typical	117.796	50	0.135	0.135			Temporary Crossing
	PEM 2	50	N31.760349	W88.769095	11	9N, 8W	Wetland Drain	50.955	3	0.004	0.004			Temporary Crossing

WETLAND LOCATION WORKSHEET



TELLUS OPERATING GROUP, LLC

WYC Field Retrofit For CO2 Project

Well Name	Water Body Name	Waypoint	Latitude (DD)	Longitude (DD)	SEC	T & R	Description (Current)	Length	Width	Total Acreage	Temporary Impact	Conversion of Habitat	Permanent Fill	Nature of Activity
	PFO 7	63	N31.759597	W88.77039	11	9N, 8W	Forested Wetland			0.027		0.027		Conversion for ROW Construction
	PFO 8	66	N31.757917	W88.769322	11	9N, 8W	Forested Wetland			0.011		0.011		Conversion for ROW Construction
	PFO 9	65	N31.757675	W88.768538	11	9N, 8W	Forested Wetland			0.006		0.006		Conversion for ROW Construction
	PSS 2	68	N31.752776	W88.765596	14	9N, 8W	Scrub-Shrub Wetland			1.303		1.303		Conversion for ROW Construction
	PFO 10	73	N31.748585	W88.765343	14	9N, 8W	Forested Wetland			0.016		0.016		Conversion for ROW Construction
	PFO 11	72	N31.748547	W88.765607	14	9N, 8W	Forested Wetland			0.024		0.024		Conversion for ROW Construction
	PSS 3	80	N31.756261	W88.754872	12	9N, 8W	Scrub-Shrub Wetland			0.014		0.014		Conversion for ROW Construction
	PSS 4	80	N31.756261	W88.754872	12	9N, 8W	Scrub-Shrub Wetland			0.032		0.032		Conversion for ROW Construction
	PSS 5	80	N31.756261	W88.754872	12	9N, 8W	Scrub-Shrub Wetland			0.010		0.010		Conversion for ROW Construction
	RPW 9	79	N31.75662	W88.75471	12	9N, 8W	RPW Typical (Yellow Creek)	50.320	40	0.046	0.046			Temporary Crossing
	PSS 6	79	N31.75662	W88.75471	12	9N, 8W	Scrub-Shrub Wetland			0.003		0.003		Conversion for ROW Construction
	PSS 7	79	N31.75662	W88.75471	12	9N, 8W	Scrub-Shrub Wetland			0.005		0.005		Conversion for ROW Construction
	PFO 12	78	N31.758594	W88.753093	12	9N, 8W	Forested Wetland			0.013		0.013		Conversion for ROW Construction
	PFO 13	78	N31.758594	W88.753093	12	9N, 8W	Forested Wetland			0.018		0.018		Conversion for ROW Construction
	RPW 10	77	N31.758623	W88.752913	12	9N, 8W	RPW Seasonal	50.007	8	0.009	0.009			Temporary Crossing
	PFO 14	92	N31.752669	W88.753721	13	9N, 8W	Forested Wetland			0.067		0.067		Conversion for ROW Construction
	NRPW 4	93	N31.750902	W88.752722	13	9N, 8W	Non-RPW	52.535	3	0.004	0.004			Temporary Crossing
	PSS 8	88	N31.753573	W88.751758	13	9N, 8W	Scrub-Shrub Wetland			0.069		0.069		Conversion for ROW Construction
	RPW 11	85	N31.755547	W88.751812	12	9N, 8W	RPW Typical	55.980	40	0.051	0.051			Temporary Crossing
	PFO 15	84	N31.756265	W88.751621	12	9N, 8W	Forested Wetland			0.051		0.051		Conversion for ROW Construction

WETLAND LOCATION WORKSHEET



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WYC Field Retrofit For CO2 Project

Well Name	Water Body Name	Waypoint	Latitude (DD)	Longitude (DD)	SEC	T & R	Description (Current)	Length	Width	Total Acreage	Temporary Impact	Conversion of Habitat	Permanent Fill	Nature of Activity
	NRPW 5	91	N31.751922	W88.74987	13	9N, 8W	Non-RPW	50.054	4	0.005	0.005			Temporary Crossing
	PSS 9	90	N31.751447	W88.749594	13	9N, 8W	Scrub-Shrub Wetland			0.143		0.143		Conversion for ROW Construction
	PFO 16	98	N31.745138	W88.76139	14	9N, 8W	Forested Wetland			0.681		0.681		Conversion for ROW Construction
	PEM 3	102	N31.741703	W88.75859	14	9N, 8W	Emergent Wetland			0.036	0.036			Temporary Crossing
	PFO 17	104	N31.742577	W88.755824	13	9N, 8W	Forested Wetland			0.057		0.057		Conversion for ROW Construction
	PEM 4	113	N31.73777	W88.759237	23	9N, 8W	Emergent Wetland			0.178	0.178			Temporary Crossing
	PFO 18	113	N31.73777	W88.759237	23	9N, 8W	Forested Wetland			0.049		0.049		Conversion for ROW Construction
	PFO 19	113	N31.73777	W88.759237	23	9N, 8W	Forested Wetland			0.026		0.026		Conversion for ROW Construction
	PFO 20	121	N31.735283	W88.747566	24	9N, 8W	Forested Wetland			0.058		0.058		Conversion for ROW Construction
	PEM 5	125	N31.73085	W88.746262	24	9N, 8W	Emergent Wetland			0.379	0.379			Temporary Crossing
	PFO 21	125	N31.73085	W88.746262	24	9N, 8W	Forested Wetland			0.057		0.057		Conversion for ROW Construction
	RPW 12	153	N31.730959	W88.744669	24	9N, 8W	RPW Typical	58.641	40	0.054	0.054			Temporary Crossing
	PFO 22	126	N31.730851	W88.743373	24	9N, 8W	Forested Wetland			0.787		0.787		Conversion for ROW Construction
	RPW 13	151	N31.731803	W88.744303	24	9N, 8W	RPW Typical	50.019	40	0.046	0.046			Temporary Crossing
	PFO 23	151	N31.731803	W88.744303	24	9N, 8W	Forested Wetland			0.139		0.139		Conversion for ROW Construction
	PFO 24	134	N31.729135	W88.748838	24	9N, 8W	Forested Wetland			0.212		0.212		Conversion for ROW Construction
	RPW 14	152	N31.728785	W88.749385	24	9N, 8W	RPW Seasonal	50.054	25	0.029	0.029			Temporary Crossing
	PFO 25	152	N31.728785	W88.749385	24	9N, 8W	Forested Wetland			0.245		0.245		Conversion for ROW Construction
	PFO 26	133	N31.729884	W88.746772	24	9N, 8W	Forested Wetland			1.063		1.063		Conversion for ROW Construction
	PSS 11	132	N31.727456	W88.743985	24	9N, 8W	Scrub-Shrub Wetland			0.088		0.088		Conversion for ROW Construction

WETLAND LOCATION WORKSHEET



TELLUS OPERATING GROUP, LLC

WYC Field Retrofit For CO2 Project

Well Name	Water Body Name	Waypoint	Latitude (DD)	Longitude (DD)	SEC	T & R	Description (Current)	Length	Width	Total Acreage	Temporary Impact	Conversion of Habitat	Permanent Fill	Nature of Activity
	PSS 12	130	N31.727309	W88.744951	24	9N, 8W	Scrub-Shrub Wetland			0.051		0.051		Conversion for ROW Construction
	PFO 27	141	N31.725201	W88.745362	25	9N, 8W	Forested Wetland			0.054		0.054		Conversion for ROW Construction
	PSS 13	148	N31.720379	W88.736878	30	9N, 7W	Scrub-Shrub Wetland			0.057		0.057		Conversion for ROW Construction
	PSS 14	147	N31.72022	W88.736406	30	9N, 7W	Scrub-Shrub Wetland			0.098		0.098		Conversion for ROW Construction
New Drill Injection														
ND INJ 7			N31.749288	W88.763833	14	9N, 8W				0.000				
ND INJ 9	PUB 1	105	N31.744471	W88.753721	13	9N, 8W	Open Water			0.024			0.024	Fill for Construction
	PSS 10	105	N31.744471	W88.753721	13	9N, 8W	Scrub-Shrub Wetland			0.987			0.987	Fill for Construction
ND INJ 18			N31.72211	W88.736892	30	9N, 7W				0.000				
ND INJ 20			N31.729576	W88.744328	24	9N, 8W				0.000				
New Drill Production														
ND PROD 13			N31.727919	W88.750289	24	9N, 8W				0.000				
ND PROD 5			N31.757132	W88.768178	11	9N, 8W				0.000				
ND PROD 10			N31.743342	W88.750292	13	9N, 8W				0.000				
ND PROD 14			N31.723677	W88.739481	30	9N, 7W				0.000				
										Total	Temporary	Conversion	Permanent	
										8.908	1.213	6.684	1.011	