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July 16th, 2024

United States Army Corps of Engineers Little Rock District – Regulatory Division 700 West Capitol, Room 7530 Little Rock, Arkansas 72201

RE: Scenic Hill Solar – Bryant, AR

Scenic Hill Solar – USACE Delineation & Concurrence

Dear Sir or Madam,

PMI visited the proposed Scenic Hill Solar Bryant site on July 12th, 2024, and July 15th, 2024, to conduct a wetland and stream delineation. The proposed site is located approximately 0.1 miles east from the intersection between Zuber Road and Lena Drive in Byant, Arkansas. Refer to Appendix A Site Maps for the approximate property boundary. Scenic Hill Solar anticipates construction in the near future and requests a United States Army Corps of Engineers (USACE) concurrence letter on this site.

Jurisdictional Findings

PMI conducted a wetland and stream delineation regarding the presence of jurisdictional wetlands and waters of the United States. The property was investigated for the presence of hydrophytic vegetation, hydric soils, and wetland hydrology as the three parameters required by the USACE wetland determination data form. Three streams, three wetlands, and one pond were identified on the property during the site visit. Data points reflecting these findings are attached as Appendix B and site photographs are attached as Appendix C.

Intermittent Stream A

Intermittent Stream A is a jurisdictional stream that flows from east to southwest and is approximately 1,544 linear feet within the site. This stream is an unnamed tributary to Hurricane Creek. Good flow and a well-defined bed and bank were noted at the time of the site visit. The presence of minnows was also noted during the site visit. Soils are mapped as the hydric unit Caddo-Messer variants complex.



Intermittent Stream B

Intermittent Stream B is a jurisdictional stream that flows from north to southwest and is approximately 380 linear feet within the site. This stream is an unnamed tributary to Hurricane Creek. Good flow and a well-defined bed and bank were noted at the time of the site visit. The presence of minnows was also noted during the site visit. Soils are mapped as the hydric unit Caddo-Messer variants complex.

Ephemeral Stream C

Ephemeral Stream C is a nonjurisdictional roadside ditch that flows from north to south and is approximately 916 linear feet within the site. This stream is an unnamed tributary to Hurricane Creek. Poor flow and a poorly defined bed and bank were noted at the time of the site visit. This stream is nonjurisdictional due to the poor stream characteristics noted at the time of the site visit. Soils are mapped as the hydric unit Caddo-Messer variants complex and Carnasaw-Townley association, undulating. Ephemeral Stream C is considered nonjurisdictional and was mapped for planning purposes.

Ponds

Jurisdictional Pond A is located in the central western portion of the property and is approximately 0.1 acres within the site. Pond A has a hydrological surface connection to downgradient features through Intermittent Stream A. Soils are mapped as the hydric unit Caddo-Messer variants complex.

Jurisdictional Wetland A

Wetland A is located in the central western portion of the property and is approximately 0.1 acres within the site. The jurisdictional wetland is connected to Intermittent Stream A and is associated with Wetland Data Point 1. Wetland hydrology indicators consisted of saturation, drift deposits, and water-stained leaves at the time of the site visit. Vegetation within the wetland consisted of *Quercus falcata, Acer negundo,* and *Elephantopus nudatus*. Soils are mapped as the hydric unit Caddo-Messer variants complex, and in-field samples revealed a hydric soil.

Jurisdictional Wetland B

Wetland B is located in the southwestern portion of the property and is approximately 0.4 acres within the site. The jurisdictional wetland is connected to Intermittent Stream A and is associated with Wetland Data Point 3. Wetland hydrology indicators consisted of surface water, surface saturation, drift deposits, and water-stained leaves at the time of the site visit. Vegetation within the wetland consisted of *Quercus falcata, Acer negundo, Ulmus americana, Alternanthera*

Explore with us



philoxeroides, and Ludwigia alternifolia. Soils are mapped as the hydric unit Caddo-Messer variants complex, and in-field samples revealed a hydric soil.

Jurisdictional Wetland C

Wetland C is located in the northeastern portion of the property and is approximately 0.5 acres within the site. The jurisdictional wetland is connected to Intermittent Stream A and is associated with Wetland Data Point 8. Wetland hydrology indicators consisted of surface water, surface saturation and water-stained leaves at the time of the site visit. Vegetation within the wetland consisted of *Quercus falcata, Acer negundo, Ampelopsis arborea,* and *Alternanthera philoxeroides*. Soils are mapped as the hydric unit Caddo-Messer variants complex, and in-field samples revealed a hydric soil.

Upland Data Points

Five upland data points were recorded during the site visit and are attached as Appendix B. These data points are representative of the upland portions of the site which consists of wooded areas.

Data Point 2 is located in the central western portion of the site. Wetland hydrology indicators were not present at the time of the site visit. Vegetation consisted of *Quercus falcata, Acer negundo,* and *Ulmus americana*. Soils are mapped as the hydric unit Caddo-Messer variants complex, and in-field samples revealed a hydric soil.

Data Point 4 is located in the western portion of the site. Wetland hydrology indicators were not present at the time of the site visit. Vegetation consisted of *Quercus falcata*, *Acer negundo*, *Ulmus americana*, and *Ambrosia artemisiifolia*. Soils are mapped as the hydric unit Caddo-Messer variants complex, but in-field samples revealed a non-hydric soil.

Data Point 5 is located in the northwestern portion of the site. Wetland hydrology indicators were not present at the time of the site visit. Vegetation consisted of *Plantanus occidentalis, Pinus taeda,* and *Carya ovata*. Soils are mapped as the hydric unit Caddo-Messer variants complex, and in-field samples revealed a hydric soil.

Data Point 6 is located in the southeastern portion of the site. Wetland hydrology indicators were not present at the time of the site visit. Vegetation consisted of *Pinus taeda* and *Coptis trifolia*. Soils are mapped as the non-hydric unit Carnasaw-Towley association, undulating, and in-field samples revealed a non-hydric soil.

Data Point 7 is located in the northeastern portion of the site. Wetland hydrology indicators were not present at the time of the site visit. Vegetation consisted of *Quercus falcata*, *Quercus phellos*,



Ludwigia alternifolia, Verbesina virginica, and Senecia hieraciifolius. Soils are mapped as the hydric unit Caddo-Messer variants complex, but in-field samples revealed a non-hydric soil.

Summary

On behalf of Scenic Hill Solar, PMI requests a USACE concurrence letter to confirm the locations of jurisdictional features within the site. Scenic Hill Solar plans to avoid these jurisdictional features during construction and use best management practices when working around them. Jurisdictional features will require a USACE permit if modified during construction. If additional information is required, please do not hesitate to contact me, at cvickers@pmico.com or 501-943-1029, or John Metrailer, at jmetrailer@pmico.com or 501-221-7122.

Sincerely,

PMI

Canyon Vickers

Canyon Vickers

Staff Scientist



Appendix A

Site Maps







Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
В	Caddo-Messer variants complex	60	21.0	75.5%
9	Carnasaw-Townley association, undulating	a	6.8	24.5%
Totals for Area of Inter	rest		27.7	100.0%

SHEET TITLES A COLL	USDA SOILS MAP		PROJECT TITLES	DALIANI	SCENIC HILL SOLAR	BRYANT, ARKANSAS		
SHEET	ĸ			1	_			
REVISIONS:	DESCRIPTION: E						RAMING\KT247212_BRYANT_USACE.DWG	
	DATE						LENTS)\USACE\DF	
Ц	NO:		L				AFTS TO C.	
CIVIL ENGINEERING AND	ENVIRONMENTAL SERVICES	LITTLE ROCK, ARKANSAS 72205	PH: (501) 221-7122 FX: (501) 221-7775	DESIGNED BY: CWV DATE: JULY 11 2024		CWV	FILE: N:\PROJECTS\2024\X1247212\PROJECT DOCUMENTS (REPORTS-LETTERS-DRAFTS TO CLENTS)\USACE\DRAWNG\K7247212_BRYANT_USACE.DWG	
		DRAWN BY:	CHECKED BY:	FILE: N:\PROJE				
	Jō K'	В Г2	กั 24	JМ -7	в <u>е</u> 21	R: 2		
sheet number: 3								



Appendix B

Data Points

Project/Site: Scenic Hill Solar USACE / Bryan	nt	City/County: Bryant / Saline Sampling Date: 12 Jul, 20						
pplicant/Owner: Scenic Hill Solar State: Arkansas Sampling Point: DP-1						::DP-1		
Investigator(s): Canyon Vickers Section, Township, Range: S7 T1S R14W								
Landform (hillslope, terrace, etc.):depression Local relief (concave, convex, none):concave Slope (%)						e (%): 3-8		
Subregion (LRR or MLRA): LRR N								
Soil Map Unit Name: Caddo-Messer variants								
Are climatic / hydrologic conditions on the site								
Are Vegetation, Soil, or Hydro						No		
Are Vegetation, Soil, or Hydro						110		
SUMMARY OF FINDINGS – Attacl						atures etc		
Somman of Findings – Attack	- Site iii	ap snowing san		, transects,	important le			
		No	Is the Sampled Area					
		No	within a Wetland?	Yes <u>√</u>	No	i		
Wetland Hydrology Present? You Remarks:	es <u>√</u>	No						
HADBOI OCA								
HYDROLOGY Wetland Hydrology Indicators:				Cocondon/Indicat	ears (minimum of t	wo required)		
Primary Indicators (minimum of one is requi	rad: chack	all that apply)		Secondary Indicat		wo required)		
Surface Water (A1)		True Aquatic Plants ((P14)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide Od		Sparsely veg		unace (Bo)		
✓ Saturation (A3)			es on Living Roots (C3)	Moss Trim Lir				
Water Marks (B1)		Presence of Reduced		Dry-Season Water Table (C2)				
Sediment Deposits (B2)			n in Tilled Soils (C6)					
✓ Drift Deposits (B3)		Thin Muck Surface (C	C7)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	(Other (Explain in Rer	marks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)				Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B	7)			Shallow Aquitard (D3)				
✓ Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations: Surface Water Present? Yes	No. 🗸	Depth (inches):						
		Depth (inches):						
				lydrology Present	t? Yes ✓	No		
(includes capillary fringe)								
Describe Recorded Data (stream gauge, mo	onitoring w	ell, aerial photos, pre	evious inspections), if ava	ıılable:				
Remarks:								

VEGETATION (Four Strata) – Use scientific	names of	plants.		Sampling Point: DP-1	
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:10' x 10') 1. Quercus falcata	<u>% Cover</u> 30	Species? Yes	Status FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A	4)
2. Acer negundo	30	Yes	FAC		,
3				Total Number of Dominant Species Across All Strata: 3 (B	3)
4				Percent of Dominant Species	
5					N/B)
6		·		Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
500/ (1.1.)		= Total Cov		OBL species x 1 =0	
50% of total cover:	20% of	total cover:	12	FACW species x 2 =0	
Sapling/Shrub Stratum (Plot size:)				FAC species $\frac{40}{x^2}$ $x^2 = \frac{120}{x^2}$	
1					
2				X 4 =	
3				UPL species x 5 =	
4				Column Totals: (A) (A) ((B)
5				Prevalence Index = B/A =3.4	
6					
7				Hydrophytic Vegetation Indicators:	
8				1 - Rapid Test for Hydrophytic Vegetation	
9				2 - Dominance Test is >50%	
·		= Total Cov		3 - Prevalence Index is ≤3.0 ¹	
50% of total cover:				4 - Morphological Adaptations ¹ (Provide support	ting
Herb Stratum (Plot size: 10'x10')				data in Remarks or on a separate sheet)	
Elephantopus nudatus	10	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)	
· · · · · · · · · · · · · · · · · · ·			1710		
2				¹ Indicators of hydric soil and wetland hydrology mus	st
3				be present, unless disturbed or problematic.	
4				Definitions of Four Vegetation Strata:	
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm)	\ or
6				more in diameter at breast height (DBH), regardless	
7				height.	
8				Sapling/Shrub – Woody plants, excluding vines, les	00
9				than 3 in. DBH and greater than or equal to 3.28 ft (
10				m) tall.	
11				Herb – All herbaceous (non-woody) plants, regardle	000
		= Total Cov	er	of size, and woody plants less than 3.28 ft tall.	;33
50% of total cover:					
Woody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than 3.28 ft in height.	n
1				neight.	
2.					
3					
4				Hydrophytic	
5				Vegetation Present? Yes ✓ No	
		= Total Cov		Tresent: Tes_v No	
50% of total cover:		total cover:			
Remarks: (Include photo numbers here or on a separate	e sheet.)				

Depth (inches) Matrix (inches) Redox Features Type¹ Loc² Texture Remarks 0-3 10YR 4/2 100 Silt Loam Silt Loam 3-12 10YR 4/3 100 Silt Loam 12-16 10YR 5/3 95 10YR 5/6 5 D M Silt Loam	
0-3 10YR 4/2 100 Silt Loam 3-12 10YR 4/3 100 Silt Loam	
3-12 10YR 4/3 100 Silt Loam	
12-16	
<u> </u>	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, M=Matrix.	rio Coilo ³ .
Hydric Soil Indicators: Indicators for Problematic Hyd	
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (MLRA 147	7)
Histic Epipedon (A2)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F	-10\
Stratified Layers (A5)	19)
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks)	,
Thick Dark Surface (A12) Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148) MLRA 136)	
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) ³ Indicators of hydrophytic veget	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be pro	
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problemat	IC.
Restrictive Layer (if observed):	
Type: roots	
Depth (inches): 16 Hydric Soil Present? Yes ✓	No
Remarks:	

Project/Site: Scenic Hill Solar USACE / Bryant	City/County: Bryant / Saline Sampling Date: 12 Jul, 2						
Applicant/Owner: Scenic Hill Solar	State: Arkansas Sampling Point: DP-2						
Investigator(s): Canyon Vickers Section, Township, Range: S7 T1S R14W							
		·	e, convex, none): Convex Slope (%): 3-8				
Subregion (LRR or MLRA): LRR N							
Soil Map Unit Name: Caddo-Messer variants com					•		
Are climatic / hydrologic conditions on the site typic							
Are Vegetation, Soil, or Hydrology					No		
					NO		
Are Vegetation, Soil, or Hydrology					oturos oto		
SUMMARY OF FINDINGS – Attach sit	e map snowing san	ipling point location	s, transects,	iiiiportant ied	atures, etc.		
	✓ No	Is the Sampled Area	ed Area				
	✓ No	within a Wetland?	Yes No <u>√</u> _				
Wetland Hydrology Present? Yes Remarks:	No ✓						
HYDROLOGY			1 1 2 4				
Wetland Hydrology Indicators:		_		ors (minimum of to	wo required)		
Primary Indicators (minimum of one is required; o			Surface Soil Cracks (B6)				
Surface Water (A1)	True Aquatic Plants (Sparsely Vegetated Concave Surface (B8)Drainage Patterns (B10)				
High Water Table (A2) Saturation (A3)	Hydrogen Sulfide OdOxidized Rhizosphere		=				
Water Marks (B1)	Presence of Reduced	=					
Sediment Deposits (B2)	Recent Iron Reductio		Dry-Season Water Table (C2) ils (C6) Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (0		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Rer		Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		_	Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)		_	Shallow Aquitard (D3)				
Water-Stained Leaves (B9)		_	Microtopographic Relief (D4)				
Aquatic Fauna (B13)			_ FAC-Neutral 1	Test (D5)			
Field Observations:	/ Danth (in short)						
	✓ Depth (inches): ✓ Depth (inches):						
	✓ Depth (inches):		Wetland Hydrology Present? Yes No ✓				
(includes capillary fringe)		-		? Tes	NO		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, pre	vious inspections), if availa	ıble:				
Remarks:							

101 × 101					
	Absolute	Dominant		Dominance Test worksheet:	
ree Stratum (Plot size: 10' x 10') Quercus falcata	% Cover 30	Species? Yes	Status FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2	(A)
Acer negundo	20	Yes	FAC		
Ulmus americana	20	Yes	FACW	Total Number of Dominant Species Across All Strata: 3	(B)
				Percent of Dominant Species	
·				That Are OBL, FACW, or FAC: 66.67%	(A/E
				Prevalence Index worksheet:	
		= Total Cov		Total % Cover of: Multiply by	<u>/:</u>
50% of total cover: 35				OBL species x 1 =0	
Sapling/Shrub Stratum (Plot size:)				FACW species x 2 =40	
·				FAC species x 3 = 60	
				FACU species30 x 4 =120	
				UPL species x 5 =0	
·				Column Totals: 70 (A) 220	(B
-				Prevalence Index = B/A = 3.1	
i <u> </u>					
				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	n
				✓ 2 - Dominance Test is >50%	
		= Total Cov		3 - Prevalence Index is ≤3.0 ¹	
50% of total cover: 0				4 - Morphological Adaptations ¹ (Provide	supportir
Herb Stratum (Plot size:)	20 /0 01	total oover.		data in Remarks or on a separate sh	eet)
				Problematic Hydrophytic Vegetation ¹ (Ex	(plain)
·					
				¹ Indicators of hydric soil and wetland hydrolc	gy must
·				be present, unless disturbed or problematic.	
•				Definitions of Four Vegetation Strata:	
·				Topo Woody plants analysis a visco 2 is	7.0) -
<u>. </u>		-		Tree – Woody plants, excluding vines, 3 in. (more in diameter at breast height (DBH), reg	
				height.	
				Sapling/Shrub – Woody plants, excluding vi	nos loss
<u> </u>				than 3 in. DBH and greater than or equal to	
0				m) tall.	(
1				Herb – All herbaceous (non-woody) plants, r	egardles
		= Total Cov		of size, and woody plants less than 3.28 ft ta	
50% of total cover:0	20% of	total cover:	0	Meady vine All woods vines greater than	
					2 20 ft in
Voody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than height.	3.28 ft in
				height.	3.28 ft in
				, ,	3.28 ft in
·				, ,	3.28 ft in
- -				height.	3.28 ft in
·				height. Hydrophytic	3.28 ft in
- -				height. Hydrophytic Vegetation	
·		= Total Cov	 er	height. Hydrophytic Vegetation	

SOIL Sampling Point: DP-2

Profile Desc	cription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirn	n the absen	ce of indicators.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 4/2	100					Silt Loam	
3-18	10YR 5/2	50	10YR 5/3	50	D	M	Silt Loam	
	-						-	
					-			
					-		-	_
¹ Type: C=C	oncentration, D=Dep	letion RM-	-Reduced Matrix MS	S-Masker	Sand Gr	ains	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil		ietiori, ixivi-	-iteaucea Matrix, Mc	J-IVIASKEC	Janu Oi	airis.		icators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(\$7)				2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		ce (S8) (N	/ILRA 147.	. 148)	Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su		. , .			(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, ,		Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Ma		,			(MLRA 136, 147)
2 cm Mu	ıck (A10) (LRR N)		Redox Dark	Surface (F	- 6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dar				_	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	Mucky Mineral (S1) (L	.RR N,	Iron-Mangan		es (F12) (LRR N,		
	A 147, 148)		MLRA 13	-			3.	
	Gleyed Matrix (S4)		Umbric Surfa					ndicators of hydrophytic vegetation and
	Redox (S5) I Matrix (S6)		Piedmont Florage Red Parent N					wetland hydrology must be present, unless disturbed or problematic.
	Layer (if observed):		Neu Faieill i	nateriai (i	Z1) (WILK	A 121, 14	<u>') </u>	uniess disturbed of problematic.
	Layer (ii observeu).							
Type:	1 \							"
	ches):						Hydric So	oil Present? Yes <u></u> No
Remarks:								

Project/Site: Scenic Hill Solar USACE / Bryant	City/County: Bryant / Saline Sampling Date: 12 Jul, 20						
oplicant/Owner: Scenic Hill Solar State: Arkansas Sampling Point: DP-3							
Investigator(s): Canyon Vickers Section, Township, Range: S7 T1S R14W							
Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%):							
Subregion (LRR or MLRA): LRR N Lat: _34°39'7.10"N Long: _92°32'51.02"W Datum							
Soil Map Unit Name: Caddo-Messer variants con							
Are climatic / hydrologic conditions on the site typ							
Are Vegetation, Soil, or Hydrology					, No		
Are Vegetation, Soil, or Hydrology					110		
SUMMARY OF FINDINGS – Attach si					aturas atc		
Sommart of Thebres - Attach si	te map snowing san	ipinig point locations	, transects,	important lea			
	✓ No	Is the Sampled Area	d Area				
	✓ No	within a Wetland?	Yes <u>√</u>	No			
Wetland Hydrology Present? Yes Remarks:	✓ No						
HYDROLOGY							
Wetland Hydrology Indicators:		Sa	condany Indicate	ors (minimum of t	wo required)		
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil C		wo required)		
✓ Surface Water (A1)	True Aquatic Plants (tated Concave S	urface (B8)		
High Water Table (A2)	Hydrogen Sulfide Ode		Drainage Patte		unace (Do)		
✓ Saturation (A3)	Oxidized Rhizosphere						
Water Marks (B1)	Presence of Reduced			ater Table (C2)			
Sediment Deposits (B2)	Recent Iron Reductio		Crayfish Burrows (C8)				
✓ Drift Deposits (B3)	Thin Muck Surface (C	<u> </u>	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Ren	marks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)			Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)			Shallow Aquitard (D3)				
✓ Water-Stained Leaves (B9) Aquatic Fauna (B13)			<pre> Microtopographic Relief (D4) FAC-Neutral Test (D5)</pre>				
Field Observations:		_	1 AC-Neutral 1	est (D3)			
	Depth (inches):)-1					
	✓ Depth (inches):						
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, pre	vious inspections), if availab	le:				
Remarks:							

VEGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: DP-3	
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:10' x 10') 1 Quercus falcata	% Cover 10	Species? Yes	Status FACU	Number of Dominant Species That Are OBL, FACW, or FAC:4 ((A)
2. Acer negundo	20	Yes	FAC		(* ')
3. Ulmus americana	20	Yes	FACW	Total Number of Dominant Species Across All Strata: 5 ((D)
4				Species Across All Strata: 5	(B)
4				Percent of Dominant Species That Are OBL FACW or FAC: 80%	
5				That Are OBL, FACW, or FAC: 80% ((A/B)
6				Prevalence Index worksheet:	
1	50			Total % Cover of: Multiply by:	
50% of total cover: 25		= Total Cove		OBL species 20 x 1 = 20	
	20% 01	lotal cover.	10	FACW species 40 x 2 = 80	
Sapling/Shrub Stratum (Plot size:)				FAC species 20 x 3 = 60	
1				FACU species 10 x 4 = 40	
2				UPL species x 5 =0	
3				00 000	(B)
4				Column Totals (A)	(D)
5				Prevalence Index = B/A =2.2	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9				✓ 3 - Prevalence Index is ≤3.0 ¹	
		= Total Cove		4 - Morphological Adaptations ¹ (Provide suppo	ortina
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)	orung
Herb Stratum (Plot size:10'x10')				Problematic Hydrophytic Vegetation ¹ (Explain)	١
1. Alternanthera philoxeroides	20	Yes	OBL	Froblematic Hydrophytic Vegetation (Explain))
2. Ludwigia alternifolia	20	Yes	FACW	1 ndicators of hydric soil and watland hydrology my	ıot
3				¹ Indicators of hydric soil and wetland hydrology mube present, unless disturbed or problematic.	มรเ
4				Definitions of Four Vegetation Strata:	
5					
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm	,
7				more in diameter at breast height (DBH), regardles height.	55 UI
8					
9.				Sapling/Shrub – Woody plants, excluding vines, lethan 3 in. DBH and greater than or equal to 3.28 ft	
10				m) tall.	. ('
11		<u> </u>		Horb. All bank account (non woods) plants recorded	
		= Total Cove	er	Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.	iless
50% of total cover: 20					
Woody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than 3.28 ft height.	t in
1				Holght	
2					
3.					
4					
5				Hydrophytic Vegetation	
<u> </u>		= Total Cove		Present? Yes _ \(\sqrt{No}	
50% of total cover:0					
Remarks: (Include photo numbers here or on a separate si					
Tremane. (morado prioto namboro noto di diria doparato di	11001.)				

Profile Desc	ription: (Describe t	o the depth i	needed to docum	ent the ir	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix			Features	;			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 3/1	95	7.5YR 5/8	5	D	M	Silt Loam	redox at roots
							-	
<u> </u>								<u> </u>
								· _
								-
								
1 _{Tympo} , C. C.	naontration D Donl		duand Matrix MC	Mookod	Cond Cro		2l continu	D. Doro Lining M. Motriy
Hydric Soil	oncentration, D=Deple	etion, RM=Re	duced Matrix, MS	=Masked	Sand Gra	ains.	Location: I	PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils ³ :
-			David Ouriface	(07)				
Histosol	(A1) pipedon (A2)	•	Dark Surface Polyvalue Bel		. (CO) /M	II D A 447		2 cm Muck (A10) (MLRA 147) Coast Prairie Redox (A16)
Black Hi		•	Polyvalue Bei				140)	(MLRA 147, 148)
	n Sulfide (A4)	•	Loamy Gleye			47, 140)		Piedmont Floodplain Soils (F19)
	l Layers (A5)	•	✓ Depleted Mat		2)		'	(MLRA 136, 147)
	ick (A10) (LRR N)	•	Redox Dark S		6)		,	Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dark	,	,			Other (Explain in Remarks)
	ark Surface (A12)	()	Redox Depres		. ,		_	(=)
	lucky Mineral (S1) (L	RR N,	 Iron-Mangane			LRR N,		
	\ 147, 148)		MLRA 136		, , ,	•		
	leyed Matrix (S4)		Umbric Surfac	ce (F13) (I	MLRA 13	6, 122)	³ In	dicators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Floo	odplain So	oils (F19)	(MLRA 14	8) w	etland hydrology must be present,
Stripped	Matrix (S6)		Red Parent M	laterial (F2	21) (MLR	A 127, 147	') ui	nless disturbed or problematic.
Restrictive I	ayer (if observed):							
Type: roc	ot		_					_
Depth (inc	ches): 16		_				Hydric Soi	il Present? Yes <u>√</u> No
Remarks:	<u> </u>						-	

Project/Site: Scenic Hill Solar USACE / Bryant	City/County: Bryant / Saline	Sampling Date: 12 Jul, 2024					
Applicant/Owner: Scenic Hill Solar	State: Arkansas Sampling Point: DP-4						
Investigator(s): Canyon Vickers Section, Township, Range: S7 T1S R14W							
Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex							
Subregion (LRR or MLRA): LRR N							
Soil Map Unit Name: Caddo-Messer variants comp		NWI classification: None					
Are climatic / hydrologic conditions on the site typic							
		I Circumstances" present? Yes No					
Are Vegetation, Soil, or Hydrology _							
SUMMARY OF FINDINGS – Attach site		ons, transects, important features, etc.					
	No √ Is the Sampled Area						
	No √ within a Wetland?	Yes No <u>√</u>					
Wetland Hydrology Present? Yes Remarks:	No						
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; c		Surface Soil Cracks (B6)					
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)	Hydrogen Sulfide Odor (C1)Oxidized Rhizospheres on Living Roots (C3)	Drainage Patterns (B10)					
Saturation (A3) Water Marks (B1)	Oxidized Kriizospheres on Living Roots (C3) Presence of Reduced Iron (C4)						
	Recent Iron Reduction in Tilled Soils (C6)	Dry-Season Water Table (C2) Is (C6) Crayfish Burrows (C8)					
Drift Deposits (B3)	Thin Muck Surface (C7)	Craylish Burrows (C8) Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)					
Iron Deposits (B5)		Geomorphic Position (D2)					
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)					
Water-Stained Leaves (B9)		Microtopographic Relief (D4)					
Aquatic Fauna (B13)		FAC-Neutral Test (D5)					
Field Observations:	1.5.45.1						
	✓ Depth (inches):						
	✓ Depth (inches):	Wetland Hydrology Present? Yes No ✓					
(includes capillary fringe)	✓ Depth (inches): Wetland F	iydrology Present? Tes No▼					
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspections), if ava	ilable:					
Remarks:							
1		ļ.					

VEGETATION (Four Strat	:a) – Use	scientific na	ames of	plants.		;	Sampling P	oint:_	DP-4	
			Absolute	Dominant	Indicator	Dominance Tes	t worksheet:			
Tree Stratum (Plot size: 1 Quercus falcata	0' x 10'	.)	% Cover 10	Species? Yes	Status FACU	Number of Domi			1	(A)
2. Acer negundo			10	Yes	FAC					(, ,)
o Carva ovata			20	Yes	FACU	Total Number of			4	(D)
					17100	Species Across A	All Strata:			(B)
4						Percent of Domir	nant Species		050/	
5						That Are OBL, F.	ACW, or FAC	:	25%	(A/B)
6						Prevalence Inde	av workshoot			
7							er of:		Itiply by:	
				= Total Cov						
		al cover: 20	20% of	total cover:	88				0	_
Sapling/Shrub Stratum (Plot siz	.e:)				FACW species				_
1						FAC species	10 50			_
2						FACU species		x 4 = _	_	_
3										_
4						Column Totals:	60	(A) _	230	_ (B)
5							5/4		3.8	
6							e Index = B/A			_
7						Hydrophytic Ve	_			
8						1 - Rapid Te			egetation	
						2 - Dominan	ce Test is >50)%		
9				Total Cov		3 - Prevalen				
	50% of tot	al cover: 0		= Total Cover		4 - Morpholo	ogical Adaptat	ions¹ (F	Provide sup	porting
Herb Stratum (Plot size:	10'x10'	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	20 /0 01	total cover.		data in R	emarks or on	a sepai	rate sheet)	
		_ /	20	Yes	FACU	Problematic	Hydrophytic \	/egetati	ion¹ (Explai	in)
•					IACO					
2						¹ Indicators of hyd	dric soil and w	etland l	hydrology r	nust
3						be present, unles	ss disturbed o	r proble	ematic.	
4						Definitions of Fo	our Vegetation	n Stra	ta:	
5						Tree – Woody pl	ants evoludin	a vines	3 in (7 6	cm) or
6						more in diameter				
7						height.				
8						Sapling/Shrub -	- Woody plant	s. exclu	ıdina vines	less
9						than 3 in. DBH a				
10						m) tall.				
11						Herb – All herba	ceous (non-w	a (vboo	lants, rega	rdless
				= Total Cov		of size, and wood				
	50% of tot	al cover: 10	20% of	total cover:	4	Woody vine – A	II woody vines	areate	r than 3 28	R ft in
Woody Vine Stratum (Plot size:)				height.	ii woody viiioo	groute	71 than 0.20	, , , , , , , ,
1										
2										
3										
4						Hydrophytic				
5						Hydrophytic Vegetation				
				= Total Cov	er	Present?	Yes	No		
	50% of tot	al cover: 0								
Remarks: (Include photo numb	ers here or	on a separate s	heet.)							
		•	,							

SOIL Sampling Point: DP-4

Profile Desc	cription: (Describe to	the depth r	eeded to docur	nent the i	ndicator	or confirm	the ab	sence of indicators.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Text	ture Remarks	
0-17	10YR 2/1	100					Silt L	oam	
					-		-		
							-		
							-		
							-		
				-					
	oncentration, D=Deple	etion, RM=Re	duced Matrix, MS	S=Masked	Sand Gra	ains.	² Locat	tion: PL=Pore Lining, M=Matrix.	3
Hydric Soil			_					Indicators for Problematic Hydric Soils	:
Histosol	, ,	-	Dark Surface					2 cm Muck (A10) (MLRA 147)	
	oipedon (A2)	-	Polyvalue Be		. , .		148)	Coast Prairie Redox (A16)	
	stic (A3)	-	Thin Dark Su			47, 148)		(MLRA 147, 148)	
	en Sulfide (A4)	-	Loamy Gleye	,	F2)			Piedmont Floodplain Soils (F19)	
	d Layers (A5)	-	Depleted Ma		(0)			(MLRA 136, 147)	
	uck (A10) (LRR N)	(044)	Redox Dark					Very Shallow Dark Surface (TF12)	
	d Below Dark Surface ark Surface (A12)	(A11) _	Depleted Date Redox Depre					Other (Explain in Remarks)	
	Aucky Mineral (S1) (Ll	DD N	Redox Depre Iron-Mangan			DD N			
	A 147, 148)	_	MLRA 13		55 (I IZ) (I	LIXIX IV,			
	Gleyed Matrix (S4)		Umbric Surfa	•	MIRA 13	6 122)		³ Indicators of hydrophytic vegetation and	1
	Redox (S5)	-	Piedmont Flo				.8)	wetland hydrology must be present,	•
	Matrix (S6)	-	Red Parent N					unless disturbed or problematic.	
	Layer (if observed):	-			/ (′	amood distance of problemane.	
			='				Llscalm	ric Soil Present? Yes No	/
	ches):		_				пуаг	ic Soil Present? Tes No	_
Remarks:									ļ
									ļ

Project/Site: Scenic Hill Solar USACE / Bryant	City/C	county: Bryant / Saline		Sampling Date:	12 Jul, 2024			
Applicant/Owner: Scenic Hill Solar			State: Arkansas	_ Sampling Point	::DP-5			
Investigator(s): Canyon Vickers	Section	on, Township, Range: S7						
		·	cave, convex, none): convex Slope (%): 3-8					
Subregion (LRR or MLRA): LRR N								
Soil Map Unit Name: Caddo-Messer variants comp		Long			•			
Are climatic / hydrologic conditions on the site typic								
Are Vegetation, Soil, or Hydrology _					No			
					NO			
Are Vegetation, Soil, or Hydrology _ SUMMARY OF FINDINGS – Attach site					oturos oto			
SUMMART OF FINDINGS – Attach site	Filiap Showing San	ipinig point location	is, transects,	important lea	atures, etc.			
	✓ No	Is the Sampled Area						
	✓ No	within a Wetland?	Yes	_ No <u> </u>	ı			
Wetland Hydrology Present? Yes Remarks:	No ✓							
HADBOLOGA								
HYDROLOGY Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of t	wo roquirod)			
Primary Indicators (minimum of one is required; cl	heck all that apply)	-	Surface Soil C		wo required)			
	True Aquatic Plants (Surface Soil C Sparsely Vege		turface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odd		Sparsely vego Drainage Patt		unace (bo)			
Saturation (A3)	Oxidized Rhizosphere							
	Presence of Reduced		Dry-Season Water Table (C2)					
	Recent Iron Reductio							
Drift Deposits (B3)	Thin Muck Surface (C	C7) _	Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Other (Explain in Ren	narks) _		essed Plants (D1))			
Iron Deposits (B5)		-	Geomorphic F	, ,				
Inundation Visible on Aerial Imagery (B7)		-	Shallow Aquit					
Water-Stained Leaves (B9)		-		ohic Relief (D4)				
Aquatic Fauna (B13) Field Observations:		<u>-</u>	FAC-Neutral 1	rest (D5)				
	✓ Depth (inches):							
	✓ Depth (inches):							
	✓ Depth (inches):		drology Present	? Yes	No✓			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitori								
Describe Recorded Data (stream gauge, monitori	ng well, aerial priotos, pre	vious irispections), ii avaii	able.					
Remarks:								

6	VEGETATION (Four Strate		Sampling Point: DP-5							
1. Pictares occidentalis 2						Dominance Tes	t worksheet:			
3. Carrya ovata 4.		<u>)' x 10'</u>)						2	2	(A)
3. Carya ovata 3. Carya ovata 4.	2. Pinus taeda		30	Yes	FAC	Total Number of	Dominant			
5				Yes	FACU				3	(B)
Prevalence Index worksheet: Total (Nover 18 100 Nultiply by: Sapling/Shrub Stratum (Plot size:								66	.67%	(A/B
Sapling/Shrub Stratum (Plot size:	6					Provalence Inde	ov workshoot:			
Sapling/Shrub Stratum (Plot size:	7							Multi	nly by:	
Sapling/Shrub Stratum (Plot size:										
Sapling/Shrub Stratum (Plot size:			20% of	total cover:	18					_
2	Sapling/Shrub Stratum (Plot size	e:)					X			_
2.	1					1 .	0.0			_
Column Totals: 90	2						X			_
4.	3									_
Hydrophytic Vegetation Indicators: 7.	4					Column Totals:	(A	A)	270	(B)
7.									3	_
8.						Hydrophytic Ve	getation Indica	ators:		
9 = Total Cover						1 - Rapid Te	st for Hydrophy	tic Veg	etation	
= Total Cover 50% of total cover: 0 20% of total cover: 0 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)						✓ 2 - Dominan	ce Test is >50%	%		
Herb Stratum (Plot size:) 1	9			·		✓ 3 - Prevalen	ce Index is ≤3.0	D ¹		
data in Remarks or on a separate sheet)						4 - Morpholo	ogical Adaptatio	ns¹ (Pro	ovide sup	portin
Herb Stratum (Plot size:) 1		·	20% of	total cover:						
2.								•	,	
3	1						Tryarophytio ve	gotatio	т (Ехріа	,
be present, unless disturbed or problematic. be present part of pur less of size and woody plants, excluding vines, a in. (7.6 cm) of more in diameter at breast height (DBH), regardless of size, and woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Herb – All herbaceous (non-woody) plants, excluding vines, less than 3 in. (7.6 cm) of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. Herb – All herbaceous (non-woody) plants, excluding vines, less than 3 in. (7.6 cm) of size, and woody plants less than 3.28 ft tall. Tree – Woody vine – All woody vines greater than 3.28 ft in height.	2					¹ Indicators of by	dria gail and wa	tland by	drology r	munt
4										nust
5						-		•		
6						Deminions of the	our vegetation	Otrata	•	
7										
8							at breast heigh	nt (DBH), regard	ess of
9						noight.				
10										
Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size:) 1							nd greater than	or equa	al to 3.28	, ft (1
— = Total Cover 50% of total cover: 0 20% of total cover: 0 Woody Vine Stratum (Plot size:) 1						iii) taii.				
Woody Vine Stratum (Plot size:) Woody Vine Stratum (Plot size:) Woody Vine Stratum (Plot size:)	11			·						rdless
Woody Vine Stratum (Plot size:) 1 2 3 4 5= Total Cover 50% of total cover: 00 20% of total cover: 00 Woody vine - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes✓ No		500/ -{\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				of size, and wood	dy plants less th	nan 3.28	3 ft tall.	
1			20% of	total cover:		Woody vine – A	Il woody vines	greater	than 3.28	3 ft in
2						height.				
3	1									
4 Hydrophytic 5 = Total Cover 50% of total cover: 0 20% of total cover: 0 Yes ✓ No	2									
5 = Total Cover = Total cover: 0 20% of total cover: 0 No	3									
5	4					Hydrophytic				
= Total Cover Present? Yes _ ✓ No 50% of total cover: _ 0 20% of total cover: _ 0	5									
50% of total cover: 0 20% of total cover: 0					er		Yes <u>√</u>	_ No _		
		50% of total cover: 0								
Tremains. (include prioto numbers nere or on a separate sneet.)										
	Remarks: (Include photo number	ers here or on a separate s	heet.)							

Sampling Point: ____DP-5

Profile Desc	cription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirn	n the absen	ce of indicators.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-5	10YR 5/2	100					Silt Loam	
5-18	10YR 5/3	80	10YR 5/6	20	D	M	Silt Loam	
	-							
					-			
					-			_
¹ Type: C=C	oncentration, D=Dep	letion RM-	-Reduced Matrix MS	S-Masker	Sand Gr	ains	² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil		ietiori, ixivi-	-iteaucea Matrix, Mc	J-IVIASKEC	Janu Oi	airis.		icators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(97)				2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		ce (S8) (N	/ILRA 147.	. 148)	Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su		. , .		, ,	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, -,		Piedmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Ma		,			(MLRA 136, 147)
2 cm Mu	uck (A10) (LRR N)		Redox Dark	Surface (F	- 6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	Mucky Mineral (S1) (L	.RR N,	Iron-Mangan		es (F12) (LRR N,		
	A 147, 148)		MLRA 13	-	(B. 11 D. 14 A		3,	
	Gleyed Matrix (S4)		Umbric Surfa					ndicators of hydrophytic vegetation and
	Redox (S5) I Matrix (S6)		Piedmont Florage Red Parent N					wetland hydrology must be present, unless disturbed or problematic.
	Layer (if observed):		Neu Faieill i	nateriai (i	Z1) (WILK	A 121, 14	<u>')</u>	uniess disturbed of problematic.
	Layer (ii observeu).							
Type:	1 \							"
	ches):						Hydric So	oil Present? Yes <u></u> No
Remarks:								

Project/Site: Scenic Hill Solar USACE / Bryant	City/County: Bryant	/ Saline	Sampling Date: 12 Jul, 2024				
Applicant/Owner: Scenic Hill Solar	State: Arkansas	Sampling Point:DP-6					
Investigator(s): Canyon Vickers	Section, Township.	Range: S7 T1S R14W					
- ' '		cave, convex, none): convex Slope (%): 3-8					
Subregion (LRR or MLRA): LRR N Lat:							
Soil Map Unit Name: Carnasaw-Townley Association,		NWI classifica					
Are climatic / hydrologic conditions on the site typical for							
Are Vegetation, Soil, or Hydrology			,				
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site m							
SOMMANT OF FINDINGS – Attach site in		Tiocations, transects,	important leatures, etc.				
	No Is the Samp	led Area					
	_ No✓ within a We		No				
Wetland Hydrology Present? Yes Remarks:	_ No✓						
HYDROLOGY		O a see also a la d'a se					
Wetland Hydrology Indicators:	l. all that are also		ors (minimum of two required)				
Primary Indicators (minimum of one is required; check		Surface Soil C					
	True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	Sparsely vege Drainage Patte	etated Concave Surface (B8)				
	Oxidized Rhizospheres on Living R						
	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)					
	Recent Iron Reduction in Tilled Soil						
	Thin Muck Surface (C7)		ible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Str	essed Plants (D1)				
Iron Deposits (B5)		Geomorphic P					
Inundation Visible on Aerial Imagery (B7)		Shallow Aquita					
Water-Stained Leaves (B9)			phic Relief (D4)				
Aquatic Fauna (B13)		FAC-Neutral T	est (D5)				
Field Observations: Surface Water Present? Yes No ✓	Depth (inches):						
	Depth (inches):						
		Wetland Hydrology Present	? Yes No ✓				
(includes capillary fringe)							
Describe Recorded Data (stream gauge, monitoring v	veii, aeriai priotos, previous inspectio	ons), ir avallable:					
Remarks:							

VEGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Poin	t:t:	
	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:10' x 10')	% Cover	Species?		Number of Dominant Species		
1. Pinus taeda	40	Yes	FAC	That Are OBL, FACW, or FAC: _	2	(A)
2				Total Nevel and Character of		
3				Total Number of Dominant Species Across All Strata:	2	(B)
4						(D)
				Percent of Dominant Species	1000/	
5				That Are OBL, FACW, or FAC: _	100%	(A/B)
6		-		Prevalence Index worksheet:		
7			-		Multiply by	
	40 :	= Total Cov	er		Multiply by:	
50% of total cover: 20	20% of	total cover:	88	OBL species x 1		_
Sapling/Shrub Stratum (Plot size:)				FACW species x 2	=	_
1				FAC species 40 x 3		_
2				FACU species x 4	=0	_
3				UPL species x 5	=0	_
				Column Totals:50 (A)	140	(B)
4						_ (-/
5				Prevalence Index = B/A = _	2.8	_
6				Hydrophytic Vegetation Indicato		
7				1 - Rapid Test for Hydrophytic		
8				✓ 2 - Dominance Test is >50%	vogetation	
9						
		= Total Cov		√ 3 - Prevalence Index is ≤3.0¹	1	
50% of total cover:0				4 - Morphological Adaptations		porting
Herb Stratum (Plot size: 10'x10')	_			data in Remarks or on a se		
,,	10	Yes	FACW	Problematic Hydrophytic Vege	atation¹ (Explai	in)
- ·						
2				¹ Indicators of hydric soil and wetlar	nd hydrology r	nust
3				be present, unless disturbed or pro		
4				Definitions of Four Vegetation S	trata:	
5						
6				Tree – Woody plants, excluding vii more in diameter at breast height (
7				height.	DBH), regardin	ESS 01
8						
9				Sapling/Shrub – Woody plants, ex		
				than 3 in. DBH and greater than or m) tall.	equal to 3.28	π (1
10				my tem.		
11		-		Herb - All herbaceous (non-wood)		rdless
		= Total Cov		of size, and woody plants less than	1 3.28 ft tall.	
50% of total cover: 5	20% of	total cover:		Woody vine – All woody vines gre	ater than 3.28	ft in
Woody Vine Stratum (Plot size:)				height.		
1						
2						
3						
4						
5				Hydrophytic Vegetation		
					No	
50% of total cover: 0		= Total Cov				
		total cover.				
Remarks: (Include photo numbers here or on a separate s	neet.)					

SOIL Sampling Point: DP-6

Profile Desc	cription: (Describe t	o the depth	needed to docun	nent the i	ndicator	or confirm	the ab	sence of indicators.)
Depth	Matrix			k Features				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Text	
0-4	10YR 4/4	100					Silt Lo	oam_
4-18	10YR 5/4	100					Silt Lo	oam
-							-	,
			_					
								 -
							-	
¹ Type: C=C	oncentration, D=Depl	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gra	ains.		ion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							Indicators for Problematic Hydric Soils ³ :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
Histic Ep	oipedon (A2)		Polyvalue Be		. , .		148)	Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su	,	•	47, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		F2)			Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat					(MLRA 136, 147)
	uck (A10) (LRR N)	(044)	Redox Dark S					Very Shallow Dark Surface (TF12)
	d Below Dark Surface ark Surface (A12)	(ATT)	Depleted Dar Redox Depre					Other (Explain in Remarks)
	Mucky Mineral (S1) (L	RR N	Iron-Mangan			RR N		
	A 147, 148)	,	MLRA 13		55 (1 12) (1	-1111 14,		
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6. 122)		³ Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo				18)	wetland hydrology must be present,
	Matrix (S6)		Red Parent N					unless disturbed or problematic.
Restrictive	Layer (if observed):							·
Type:								
Depth (in	ches):						Hydri	ic Soil Present? Yes No _ ✓
Remarks:							, ,	
rtomanto.								

Project/Site: Scenic Hill Solar USACE / Bryant	City/County: Bryant / Saline	Sampling Date: 15 Jul, 2024					
Applicant/Owner: Scenic Hill Solar		State: Arkansas Sampling Point:DP-7					
Investigator(s): Canyon Vickers	Section, Township, Range: S7	T1S R14W					
		cave, convex, none): convex Slope (%): 3-8					
Subregion (LRR or MLRA): LRR N I							
Soil Map Unit Name: Caddo-Messer variants comp		NWI classification: None					
Are climatic / hydrologic conditions on the site typica							
Are Vegetation, Soil, or Hydrology _							
Are Vegetation, Soil, or Hydrology _							
SUMMARY OF FINDINGS – Attach site	nap snowing sampling point location	ns, transects, important reatures, etc.					
	No Is the Sampled Area						
	— No ✓ within a Wetland?	Yes No <u>√</u>					
Wetland Hydrology Present? Yes Remarks:	No						
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; ch		Surface Soil Cracks (B6)					
		Sparsely Vegetated Concave Surface (B8)					
	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)					
	Oxidized Rhizospheres on Living Roots (C3)Presence of Reduced Iron (C4)	Moss Trim Lines (B16)					
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Dry-Season Water Table (C2) bils (C6) Crayfish Burrows (C8)					
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)					
Iron Deposits (B5)		Geomorphic Position (D2)					
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)					
Water-Stained Leaves (B9)		Microtopographic Relief (D4)					
Aquatic Fauna (B13)		FAC-Neutral Test (D5)					
Field Observations:							
	Depth (inches):						
	Depth (inches):	andrele we Breezewick Vers					
Saturation Present? Yes No (includes capillary fringe)	Depth (inches): Wetland H	ydrology Present? Yes No					
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous inspections), if avail	lable:					
Remarks:							

VEGETATION (Four Strata) – Use scientific	names of	plants.		Sampling Point: DP-7
	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:10' x 10') 1 Quercus falcata	<u>% Cover</u> 10	Species? Yes	Status FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2. Quercus phellos	20	Yes	FAC	
3		-		Total Number of Dominant Species Across All Strata: 5 (B)
				Species Across All Strata:5 (B)
4		-		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 40% (A/B)
6	_			Prevalence Index worksheet:
ſ. <u> </u>				Total % Cover of: Multiply by:
FOOV of total account		= Total Cov		OBL species x 1 =0
50% of total cover:	20% 01	total cover:		FACW species 20 x 2 = 40
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 = 60
1				FACU species 20 x 4 = 80
2	_			,
3		-		VPL species x 5 =
4				Column Totals: (A) (B)
5		-		Prevalence Index = B/A =3.3
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
9				2 - Dominance Test is >50%
		= Total Cov	er	3 - Prevalence Index is ≤3.0 ¹
50% of total cover:				4 - Morphological Adaptations ¹ (Provide supporting
Herb Stratum (Plot size: 10'x10')				data in Remarks or on a separate sheet)
Ludwigia alternifolia	20	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
Verbesina virginica	10	Yes	UPL	
3. Senecio hieraciifolius	10	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must
4				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5	-			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6	-			more in diameter at breast height (DBH), regardless of
7		-		height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9	<u> </u>			than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11	<u> </u>			Herb – All herbaceous (non-woody) plants, regardless
	40	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover:2	20 20% of	total cover:	8	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
4				Hadranbart.
5				Hydrophytic Vegetation
		= Total Cov	er	Present? Yes No
50% of total cover:				
Remarks: (Include photo numbers here or on a separate				
Tromaino. (morade priore framboro fiere or off a soparati	3 311001.)			

SOIL Sampling Point: DP-7

Profile Desc	cription: (Describe	to the depti	n needed to docum	ent the	indicator o	or confirm	the ab	osence of indicators.)	
Depth	Matrix			Feature					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²		ture Remarks	_
0-4	10YR 4/4	100					Silt L	_oam_	
4-10	10YR 5/4	100					Silt L	Loam	
10-18	10YR 5/6	100					Silt L	_oam	
	-	· 		-			-		_
								 -	_
									_
1Typo: C-C	oncentration, D=Dep	lotion DM-I	Poducod Matrix MS	-Maskov		nine	² l 000	tion: PL=Pore Lining, M=Matrix.	_
Hydric Soil		ietion, Rivi=i	Reduced Matrix, MS	=iviaske	a Sand Gra	airis.	Loca	Indicators for Problematic Hydric Soils ³ :	
Histosol			Dark Surface	(\$7)				2 cm Muck (A10) (MLRA 147)	
	pipedon (A2)		Polyvalue Bel	. ,	ce (S8) (M	ILRA 147.	148)	Coast Prairie Redox (A16)	
	istic (A3)		Thin Dark Sui				,	(MLRA 147, 148)	
	en Sulfide (A4)		Loamy Gleye		, .	. ,		Piedmont Floodplain Soils (F19)	
	d Layers (A5)		Depleted Mat					(MLRA 136, 147)	
	uck (A10) (LRR N)		Redox Dark S					Very Shallow Dark Surface (TF12)	
	d Below Dark Surface	e (A11)	Depleted Dar					Other (Explain in Remarks)	
	ark Surface (A12)		Redox Depre						
	Mucky Mineral (S1) (L A 147, 148)	LKK N,	Iron-Mangane		es (F12) (I	LRR N,			
	Gleyed Matrix (S4)		Umbric Surface		(MI RΔ 13)	6 122)		³ Indicators of hydrophytic vegetation and	
	Redox (S5)		Piedmont Flo				8)	wetland hydrology must be present,	
	d Matrix (S6)		Red Parent M					unless disturbed or problematic.	
Restrictive	Layer (if observed):							·	
Type:									
Depth (in	ches):						Hydr	ric Soil Present? Yes No	_
Remarks:							ı		

Project/Site: Scenic Hill Solar USACE / Bryant	City/C	County: Bryant / Saline	;	Sampling Date:	15 Jul, 2024			
Applicant/Owner: Scenic Hill Solar		S	tate: Arkansas	_ Sampling Point:)P-8			
Investigator(s): Canyon Vickers	Secti	on, Township, Range: S7 T1	S R14W					
Landform (hillslope, terrace, etc.): depression	Local rel	Local relief (concave, convex, none): concave Slope (%): 3-8						
Subregion (LRR or MLRA): LRR N								
Soil Map Unit Name: Caddo-Messer variants co								
Are climatic / hydrologic conditions on the site type								
Are Vegetation, Soil, or Hydrolog				,	No			
Are Vegetation, Soil, or Hydrolog					_ 110			
SUMMARY OF FINDINGS – Attach s					ures. etc.			
		3 F						
	✓ No ✓ No	Is the Sampled Area	,					
-	✓ No	within a Wetland?	Yes <u>√</u>	No				
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:		Sec	condary Indicate	ors (minimum of two	o required)			
Primary Indicators (minimum of one is required	; check all that apply)		Surface Soil C					
✓ Surface Water (A1)	True Aquatic Plants (etated Concave Sur	face (B8)			
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Patte		, ,			
✓ Saturation (A3)	Oxidized Rhizospher		Moss Trim Line	es (B16)				
Water Marks (B1)	Presence of Reduce	d Iron (C4)	Dry-Season W	son Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction		Crayfish Burro					
Drift Deposits (B3)	Thin Muck Surface (0			ible on Aerial Image	ery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Rei	marks)		essed Plants (D1)				
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)			Geomorphic P Shallow Aquita	, ,				
✓ Water-Stained Leaves (B9)			_ Microtopograp					
Aquatic Fauna (B13)		_	FAC-Neutral T					
Field Observations:			·					
Surface Water Present? Yes <u>✓</u> No	Depth (inches):)-3						
Water Table Present? Yes No	Depth (inches):							
	Depth (inches):	0 Wetland Hydr	rology Present	? Yes <u>√</u> I	No			
(includes capillary fringe) Describe Recorded Data (stream gauge, monit	oring well, aerial photos, pre	evious inspections), if availab	ile:					
33.,	3 , , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·						
Remarks:								

VEGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: DP-	8		
	Absolute	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size:10' x 10') 1 Quercus falcata	% Cover 30	Species? Yes	Status FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 3	(A)		
2. Acer negundo	10	Yes	FAC		_ ('')		
3				Total Number of Dominant Species Across All Strata: 4	_ (B)		
4				Percent of Dominant Species			
5				That Are OBL, FACW, or FAC: 75%	_ (A/B)		
7	-			Prevalence Index worksheet:			
	40	= Total Cov		Total % Cover of: Multiply by:			
50% of total cover: 20				OBL species 20 x 1 = 20			
Sapling/Shrub Stratum (Plot size:)	2070 01	10101 00101.		FACW species10 x 2 =20			
				FAC species 10 x 3 = 30	<u>.</u>		
1				FACU species 30 x 4 = 120			
2				UPL species x 5 =0	_		
3				70 400	(D)		
4					(B)		
5				Prevalence Index = B/A = 2.7	_		
6	-			Hydrophytic Vegetation Indicators:			
7	-			1 - Rapid Test for Hydrophytic Vegetation			
8				✓ 2 - Dominance Test is >50%			
9				✓ 3 - Prevalence Index is ≤3.0 ¹			
		= Total Cov	er	4 - Morphological Adaptations¹ (Provide su	nnortina		
50% of total cover:0	20% of	total cover:	0				
Herb Stratum (Plot size: 10'x10')				data in Remarks or on a separate shee	,		
1. Ampelopsis arborea	10	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Expl	ain)		
2. Alternanthera philoxeroides	20	Yes	OBL				
3				¹ Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic.	must		
4				Definitions of Four Vegetation Strata:			
5				Definitions of Four Vegetation Strata.			
6				Tree - Woody plants, excluding vines, 3 in. (7.4)			
				more in diameter at breast height (DBH), regar	dless of		
7				height.			
8	-			Sapling/Shrub – Woody plants, excluding vines, less			
9				than 3 in. DBH and greater than or equal to 3.2	28 ft (1		
10				m) tall.			
11				Herb - All herbaceous (non-woody) plants, reg	ardless		
45		= Total Cov		of size, and woody plants less than 3.28 ft tall.			
50% of total cover: 15	20% of	total cover:	0	Woody vine – All woody vines greater than 3.2	28 ft in		
Woody Vine Stratum (Plot size:)				height.			
1	-						
2							
3	-						
4				Hydrophytic			
5				Vegetation			
		= Total Cov	er	Present? Yes <u>√</u> No			
50% of total cover:0	20% of	total cover:	0				
Remarks: (Include photo numbers here or on a separate s	heet.)						

Sampling Point: DP-8

Profile Desc	ription: (Describe	to the dep	th needed to docum	ent the	indicator	or confirm	n the absend	ce of indicators.)
Depth	Matrix		Redox	Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 4/2	100					Silt Loam	
3-12	10YR 4/3	100					Silt Loam	
12-18	10YR 5/3	95	10YR 5/6	5		M	Silt Loam	
12-10	1011(3/3		101103/0				Ont Loan	
				-	· -	·	-	
				-			-	<u> </u>
¹Type: C=Co	oncentration D=Den	letion RM=	Reduced Matrix, MS	=Maske	d Sand Gr	ains	² l ocation:	PL=Pore Lining, M=Matrix.
Hydric Soil		iotion, rtivi-	-reduced Matrix, Me	-Waske	a Garia Gr	airio.		icators for Problematic Hydric Soils ³ :
Histosol			Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Bel		ace (S8) (N	/ILRA 147	. 148)	Coast Prairie Redox (A16)
Black Hi			Thin Dark Sur				, ,	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye					Piedmont Floodplain Soils (F19)
Stratified	Layers (A5)		✓ Depleted Mat	rix (F3)				(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark S	Surface (F6)		_	Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dark				_	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depres					
	lucky Mineral (S1) (L	RR N,	Iron-Mangane		ses (F12) (LRR N,		
	147, 148)		MLRA 136				3,	
	lleyed Matrix (S4)		Umbric Surfac					ndicators of hydrophytic vegetation and
	edox (S5)		Piedmont Floo					wetland hydrology must be present,
	Matrix (S6) _ayer (if observed):		Red Parent M	iateriai (i	-21) (IVILR	A 127, 14	1)	unless disturbed or problematic.
	-ayer (ii observed).							
Type:							l	
Depth (inc	ches):						Hydric So	oil Present? Yes <u></u> ✓ No
Remarks:								

SOIL



Appendix C Site Photographs



PHOTOGRAPH 1 — VIEW OF DATA POINT 1 SOIL SAMPLE.



PHOTOGRAPH 2 — VIEW OF DATA POINT 1.



PHOTOGRAPH 3 — VIEW OF DATA POINT 2 SOIL SAMPLE.



PHOTOGRAPH 4 — VIEW OF DATA POINT 2.



PHOTOGRAPH 5 — VIEW OF DATA POINT 3 SOIL SAMPLE.



PHOTOGRAPH 6 — VIEW OF DATA POINT 3.



PHOTOGRAPH 7 — VIEW OF DATA POINT 4 SOIL SAMPLE.



PHOTOGRAPH 8 — VIEW OF DATA POINT 4.



PHOTOGRAPH 9 — VIEW OF DATA POINT 5 SOIL SAMPLE.



PHOTOGRAPH 10 — VIEW OF DATA POINT 5.



PHOTOGRAPH 11 — VIEW OF DATA POINT 6 SOIL SAMPLE.



PHOTOGRAPH 12 — VIEW OF DATA POINT 6.



PHOTOGRAPH 13— VIEW OF DATA POINT 7 SOIL SAMPLE.



PHOTOGRAPH 14 — VIEW OF DATA POINT 7.



PHOTOGRAPH 15 — VIEW OF DATA POINT 8 SOIL SAMPLE.



PHOTOGRAPH 16 — VIEW OF DATA POINT 8.



PHOTOGRAPH 17 — VIEW OF INTERMITTENT STREAM A ENTERING SITE.



PHOTOGRAPH 18 — VIEW OF INTERMITTENT STREAM A.



PHOTOGRAPH 19 — VIEW OF INTERMITTENT STREAM A INTO POND A.



PHOTOGRAPH 20 — VIEW OF INTERMITTENT STREAM A CULVERT LEAVING POND A.



PHOTOGRAPH 21 — VIEW OF INTERMITTENT STREAM B ENTERING SITE.



PHOTOGRAPH 22 — VIEW OF INTERMITTENT STREAM B.



PHOTOGRAPH 23 — VIEW OF EPHEMERAL STREAM C TO INTERMITTENT STREAM A.



PHOTOGRAPH 24 — VIEW OF INTERMITTENT STREAM A LEAVING SITE.



PHOTOGRAPH 25 — VIEW OF WETLAND A.



PHOTOGRAPH 26 — VIEW OF WETLAND B



PHOTOGRAPH 27 — VIEW OF WETLAND C.



PHOTOGRAPH 28 — VIEW OF POND A.