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7/10/2023

Andy Melka
ILSolar05 LLC
330 W Goethe St.
Chicago, IL 60610

RE: Water Resource Determination, Hartman Solar Farm

Mr. Melka,

On June 7, 2023, Davey Resource Group, Inc. (DRG) conducted a water resource determination for the approximately 52-acre site located north of SR 64 and west of SR 47 in Kane County, Illinois. The leased area is completely encompassed by the study area, which was evaluated by Professional Wetland Scientist Heather Bobich in accordance with the procedures outlined in the *1987 U.S. Army Corps of Engineers Wetlands Delineation Manual and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region*.

The study area consists of an agricultural field planted with corn (*Zea mays*). No areas within the study area met the three criteria required to be considered a wetland (i.e. hydrology, hydric soils, and hydrophytic vegetation). The site's topography does not allow for frequent flooding or ponding. Rainwater appears to flow north to an existing culvert. No ordinary high water mark was observed within the ditches on site. Photographs, data sheets and a map are included with this letter showing the area assessed.

If you have any questions regarding the content of this letter, please call me at 317.558.8545 or email me at heather.bobich@davey.com.

Sincerely,

Heather Bobich, Area Manager
Davey Resource Group, Inc.
www.daveyresourcegroup.com

Appendix A: Study Area with Data and Photo Points



DAVEY 
Resource Group

Date: July 10, 2023

Site Location: SR 64, Kane County, Illinois
Sources: Esri World Imagery Hybrid. Imagery Date 2021.

Legend

 Data Points	 Parcel Boundary
 Photo Points	 Leased Area
	Polygons

Appendix B Site Photographs



DP 1. Roadside drainage, view looking east



DP 1. Roadside drainage, view looking west



DP 2. View looking north



DP 2. View looking east



DP 2, View looking south



DP 2. View looking west

Appendix B
Continued



PP1. View looking east



PP1. View looking north



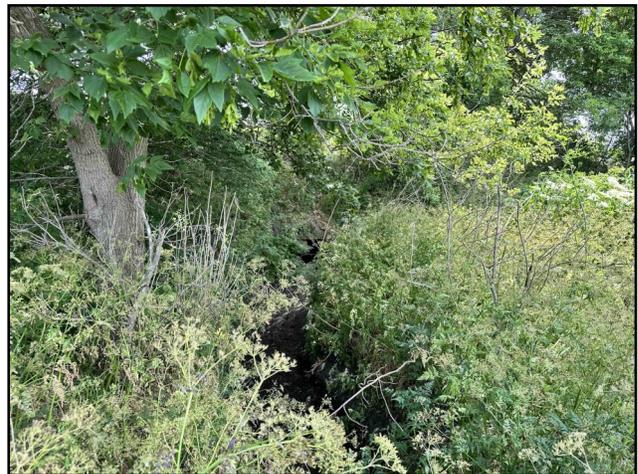
PP1. View looking west



PP2. View looking east



PP2. View looking north



PP2. View looking south—drainage and culvert

Appendix B
Continued



PP2. View looking west



PP3. View looking north



PP4. Swale looking east



PP4. Swale looking west



PP5. Gas pipeline markers



PP5. View looking east

Appendix B
Continued



PP5. View looking south—Gas pipeline markers



PP5. View looking west



PP5. Swale looking south

Appendix C
Vegetation, Hydrology, and Soils Data Sheets

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Hartman Solar Farm City/County: Kane Sampling Date: 2023-06-27
 Applicant/Owner: Horizon Solar Power State: Illinois Sampling Point: DP1
 Investigator(s): Heather Bobich Section, Township, Range: S13 T40N R6E
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave
 Slope (%): 0 Lat: -88.492821 Long: 41.9460404 Datum: WGS 84
 Soil Map Unit Name: 512B: Danabrook silt loam, 2 to 5 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Soil was highly disturbed, comprised of gravel	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Rhus aromatica</u>	<u>50</u>	<input checked="" type="checkbox"/>	<u>UPL</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.3</u> (A/B)
2. <u>Morus alba</u>	<u>40</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	
3. <u>Acer negundo</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>FAC</u>	
4. <u>Ulmus rubra</u>	<u>10</u>		<u>FAC</u>	
5. _____				
<u>120%</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>25</u> x 2 = <u>50</u> FAC species <u>95</u> x 3 = <u>285</u> FACU species <u>205</u> x 4 = <u>820</u> UPL species <u>50</u> x 5 = <u>250</u> Column Totals: <u>375</u> (A) <u>1405</u> (B) Prevalence Index = B/A = <u>3.75</u>
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. <u>Elaeagnus umbellata</u>	<u>45</u>	<input checked="" type="checkbox"/>		
2. <u>Lonicera tatarica</u>	<u>40</u>	<input checked="" type="checkbox"/>	<u>FACU</u>	
3. <u>Ligustrum vulgare</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>FACU</u>	
4. <u>Rhamnus cathartica</u>	<u>15</u>		<u>FAC</u>	
5. <u>Acer negundo</u>	<u>10</u>		<u>FAC</u>	
<u>130%</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Polygonatum biflorum</u>	<u>50</u>	<input checked="" type="checkbox"/>	<u>FACU</u>	
2. <u>Parthenocissus quinquefolia</u>	<u>40</u>	<input checked="" type="checkbox"/>	<u>FACU</u>	
3. <u>Bromus inermis</u>	<u>30</u>	<input checked="" type="checkbox"/>	<u>FACU</u>	
4. <u>Heracleum maximum</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>FACW</u>	
5. <u>Lolium perenne</u>	<u>15</u>		<u>FACU</u>	
6. <u>Solidago canadensis</u>	<u>10</u>		<u>FACU</u>	
7. <u>Agrimonia parviflora</u>	<u>5</u>		<u>FACW</u>	
8. <u>Geum vernum</u>	<u>0</u>		<u>FACU</u>	
9. _____				
10. _____				
<u>170%</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____				
2. _____				
_____ = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				

SOIL

Sampling Point: DP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
-								Highly disturbed soil being composed of gravel
-								
-								
-								
-								
-								
-								
-								

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (Inches): _____	Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>
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Remarks:
Soil is highly disturbed and composed of gravel

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required: check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Hartman Solar Farm City/County: Kane County Sampling Date: 2023-06-27
 Applicant/Owner: Horizon Solar Power State: Illinois Sampling Point: DP2
 Investigator(s): Heather Bobich Section, Township, Range: S13 T40N R6E
 Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None
 Slope (%): 0 Lat: -88.4970411 Long: 41.9470792 Datum: WGS 84
 Soil Map Unit Name: 512B: Danabrook silt loam, 2 to 5 percent slopes NWI classification: None

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

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>0</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>NaN</u> (A/B)
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Prevalence Index worksheet:				
_____ Sapling/Shrub Stratum (Plot size: _____)		_____ Total % Cover of: _____ Multiply by:		
1. _____	_____	_____	_____	OBL species <u>0</u> x 1 = <u>0</u>
2. _____	_____	_____	_____	FACW species <u>0</u> x 2 = <u>0</u>
3. _____	_____	_____	_____	FAC species <u>0</u> x 3 = <u>0</u>
4. _____	_____	_____	_____	FACU species <u>0</u> x 4 = <u>0</u>
5. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>
_____ = Total Cover				Column Totals: <u>0</u> (A) <u>0</u> (B)
				Prevalence Index = B/A = <u>NaN</u>
Hydrophytic Vegetation Indicators:				
___ 1 - Rapid Test for Hydrophytic Vegetation				
___ 2 - Dominance Test is >50%				
___ 3 - Prevalence Index is ≤3.0 ¹				
___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
___ Problematic Hydrophytic Vegetation ¹ (Explain)				
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Remarks: (Include photo numbers here or on a separate sheet.)				
_____ Woody Vine Stratum (Plot size: _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				

