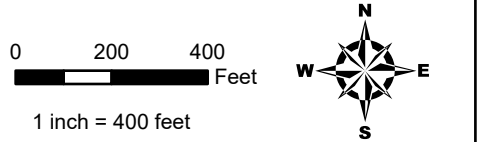
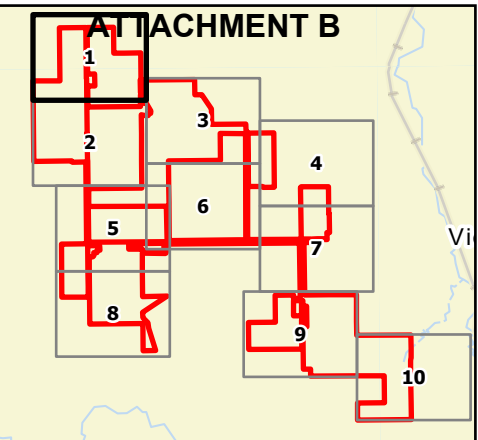
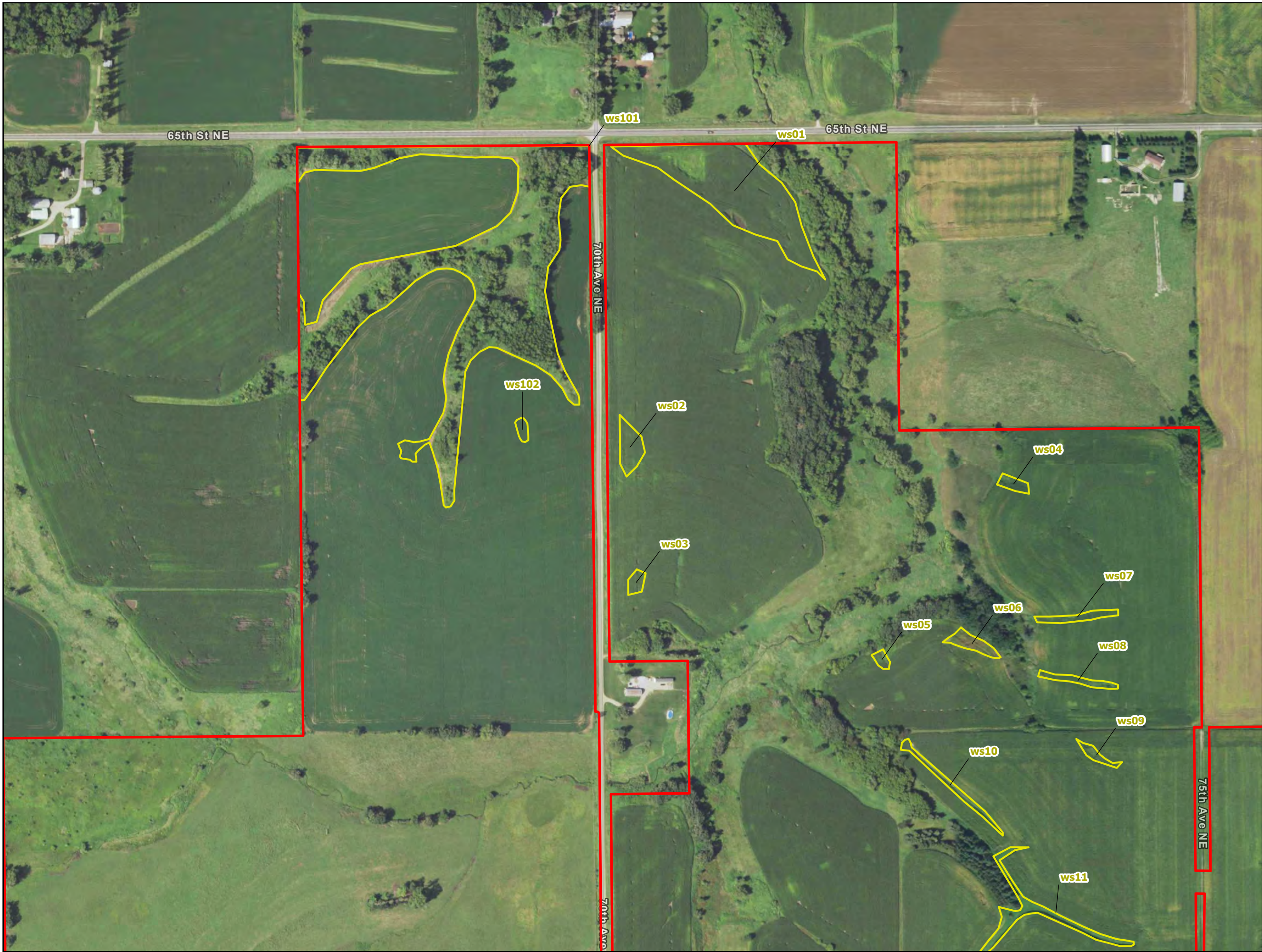


- Survey Area
- Wetness Signature

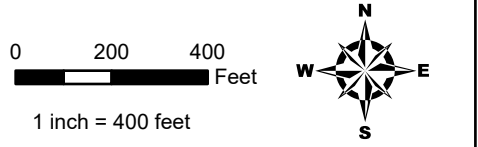
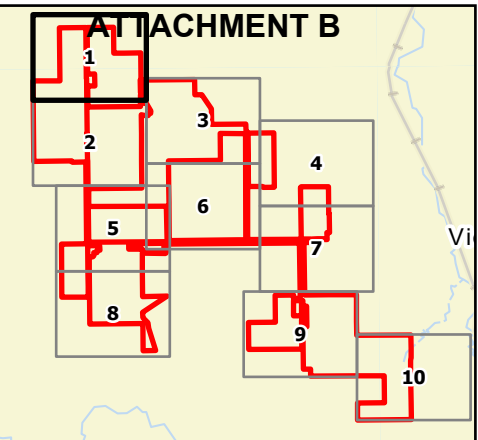
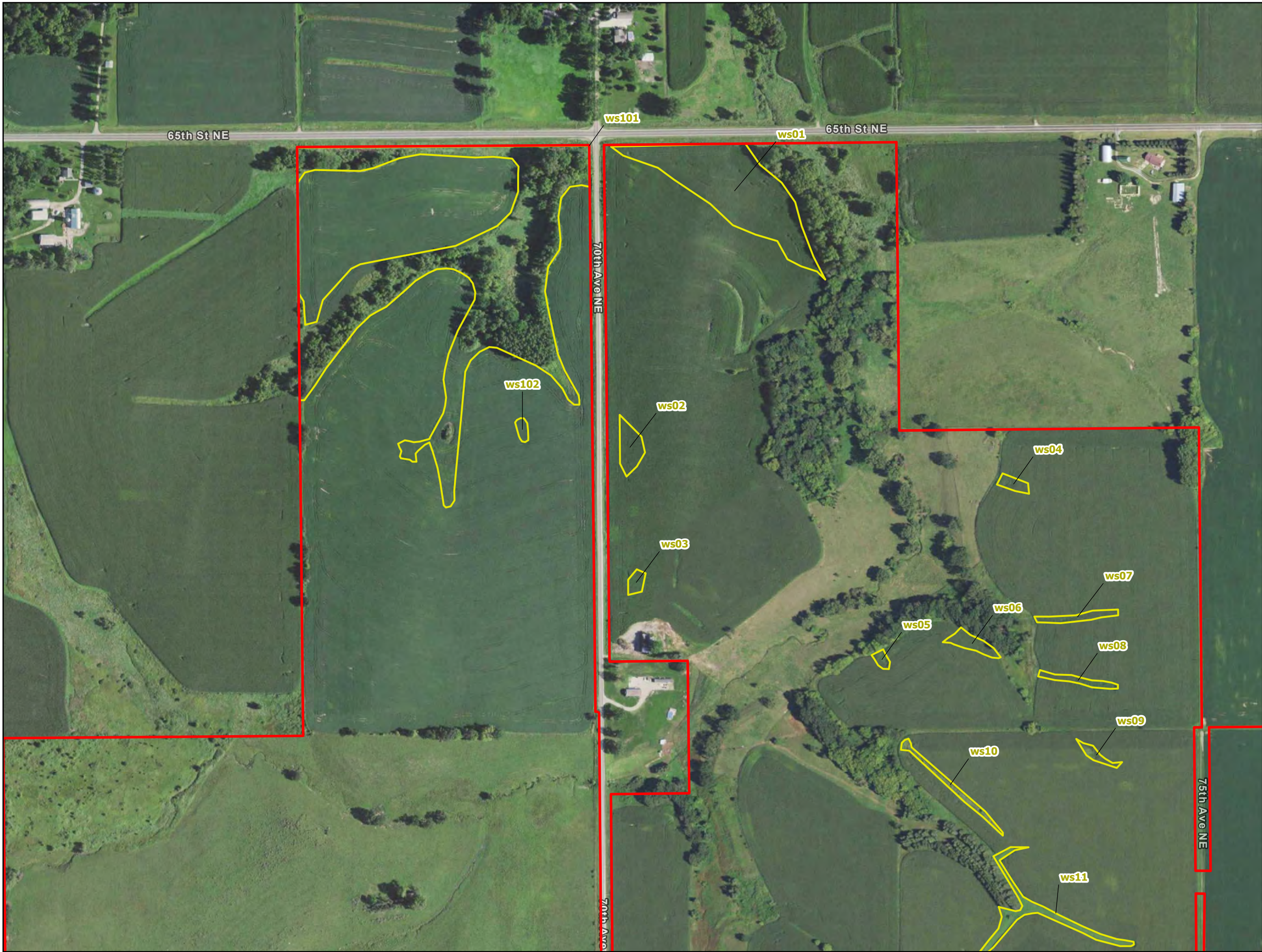
**FSA Slide Review: NAIP Imagery -
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- Survey Area
- Wetness Signature

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Ranger Power
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- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
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Ranger Power
Olmsted County, MN**



Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmstedInvestigator: Kyle Hanson Legal Description (T, R, S): T107N, R13W, S12**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws001	Area: ws002	Area: ws003	Area: ws004	Area: ws005
8/15/2021	FSA/NAIP	Normal	NV	NV	NV	NV	NV
8/20/2019	FSA/NAIP	Normal	CS	CS	NV	NV	CS
10/4/2017	FSA/NAIP	Normal	CS, DO	NV	NV	NV	NV
10/14/2015	FSA/NAIP	Normal	AP	NV	NV	CS	CS
7/5/2013	FSA/NAIP	Wet	AP, WS	WS, CS	SS	WS	WS
7/1/2010	FSA/NAIP	Normal	DO, CS	NV	NV	CS	CS
8/22/2009	FSA/NAIP	Normal	DO, CS	NV	NV	WS	WS
Normal Climate Condition			Area: ws001	Area: ws002	Area: ws003	Area: ws004	Area: ws005
Number			6	6	6	6	6
Number with wet signatures			5	1	0	3	4
Percent with wet signatures			83.3%	16.7%	0.0%	50.0%	66.7%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

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Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmstedInvestigator: Kyle Hanson Legal Description (T, R, S): T107N, R13W, S12**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws006	Area: ws007	Area: ws008	Area: ws009	Area: ws010
8/15/2021	FSA/NAIP	Normal	NV	NV	NV	CS	WS
8/20/2019	FSA/NAIP	Normal	CS	NV	NV	NV	CS
10/4/2017	FSA/NAIP	Normal	CS	NV	NV	NV	NV
10/14/2015	FSA/NAIP	Normal	NV	WS	WS	WS	WS
7/5/2013	FSA/NAIP	Wet	NV	WS	WS	WS	WS
7/1/2010	FSA/NAIP	Normal	NV	WS	WS	WS	NV
8/22/2009	FSA/NAIP	Normal	NV	WS	WS	NV	NV
Normal Climate Condition			Area: ws006	Area: ws007	Area: ws008	Area: ws009	Area: ws010
Number			6	6	6	6	6
Number with wet signatures			2	3	3	3	3
Percent with wet signatures			33.3%	50.0%	50.0%	50.0%	50.0%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

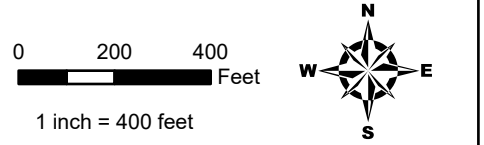
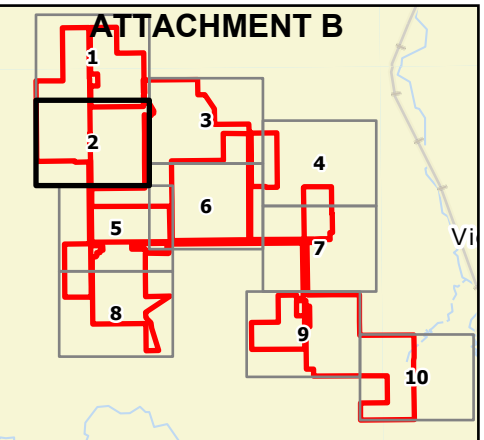
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Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**Project Name: Lemon HillDate: 04/29/2025 County: Olmsted County, MNInvestigator: Tim Flood/Kyle Hanson Legal Description (T, R, S): 107N, R12W, S17, 19, & 20**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Conditio (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws011	Area: ws101	Area: ws102		
08-15-2021	NAIP	Normal	WS	WS	NV		
08-20-2019	NAIP	Normal	CS	WS	NV		
10-04-2017	NAIP	Normal	WS	CS/WS	CS		
7/5/2013	NAIP	Wet	WS	N/A	N/A		
10-01-2015	NAIP	Normal	WS	CS/WS	CS		
07-01-2010	NAIP	Normal	NV	SS/WS	SS		
8/22/2009	NAIP	Normal	NV	N/A	N/A		
Normal Climate Condition			Area: ws11	Area: ws101	Area: ws102		
Number			6	5	5		
Number with wet signatures			4	5	3		
Percent with wet signatures			66.7%	100%	60%		

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

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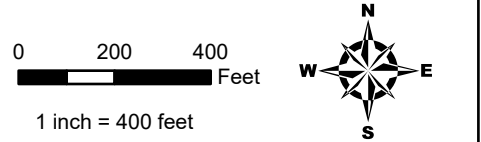
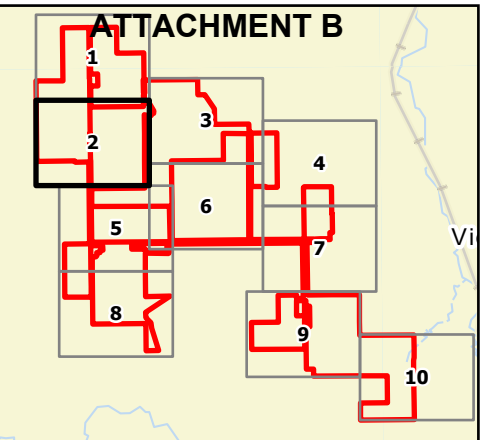


- Survey Area
- Wetness Signature

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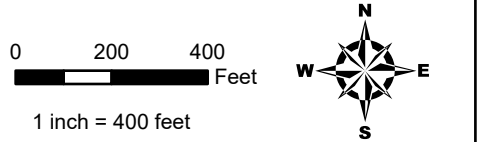
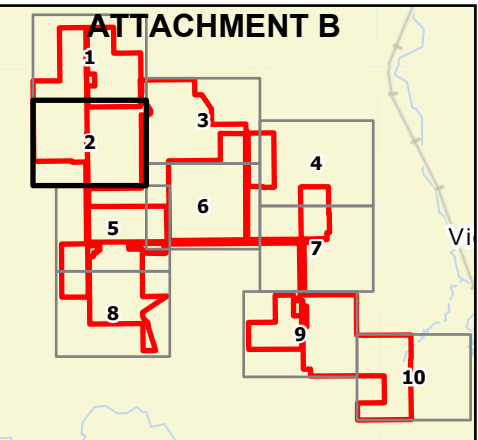




- Survey Area
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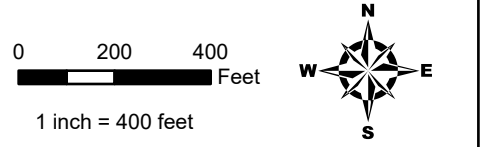
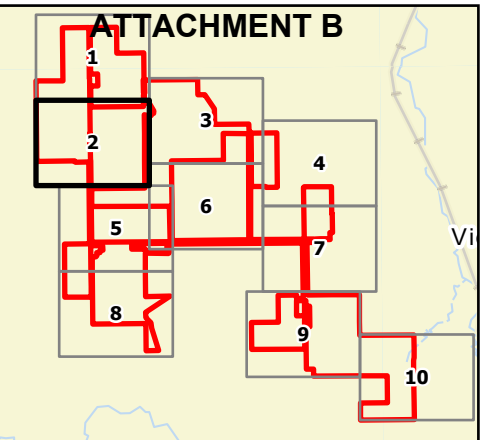
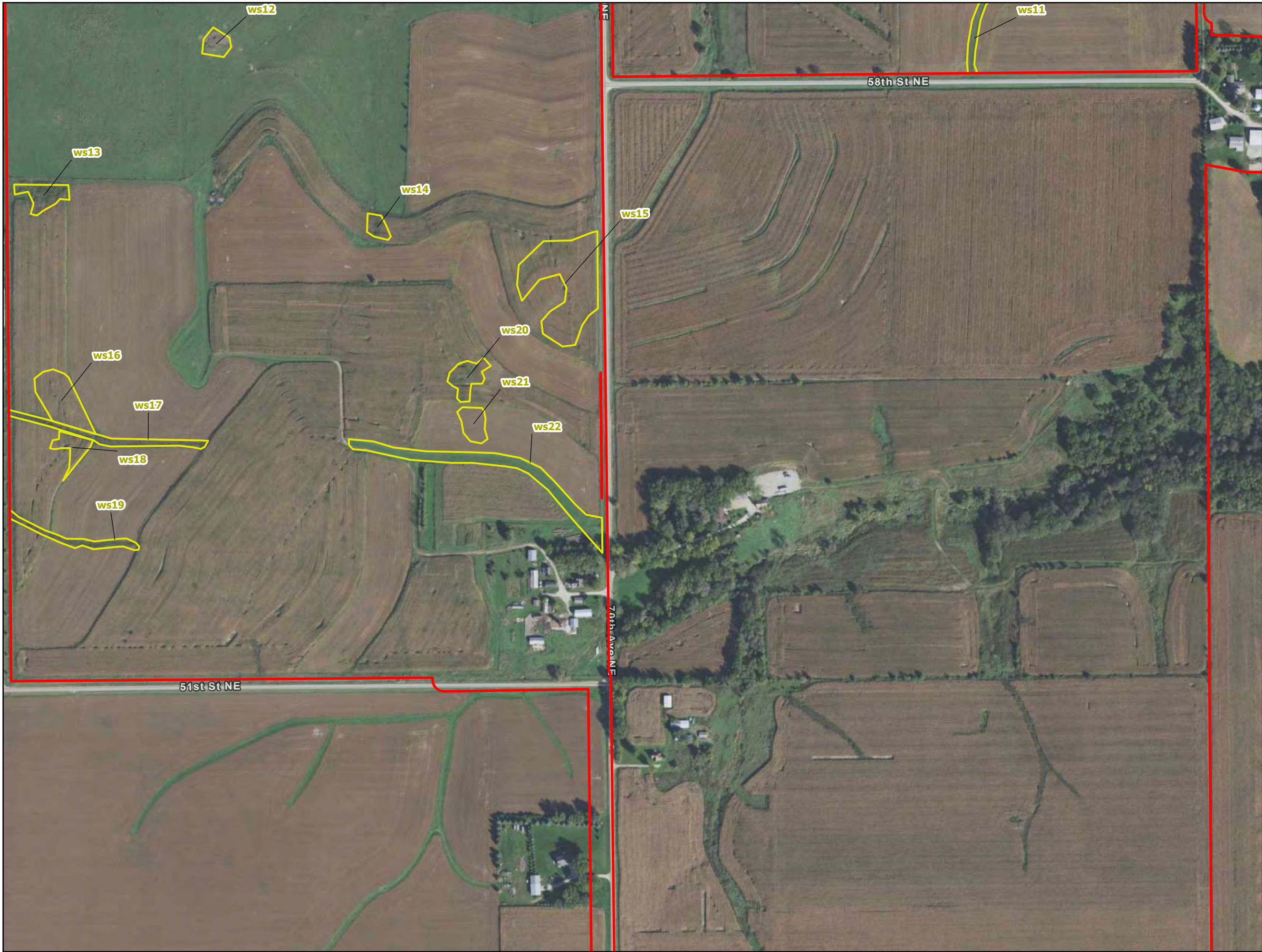




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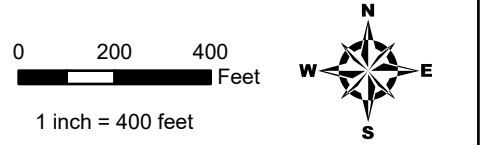
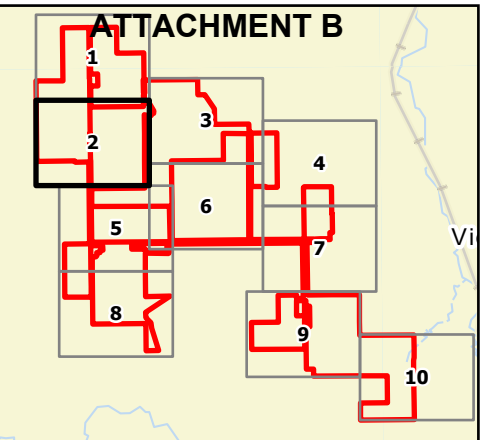




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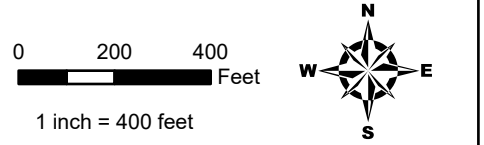
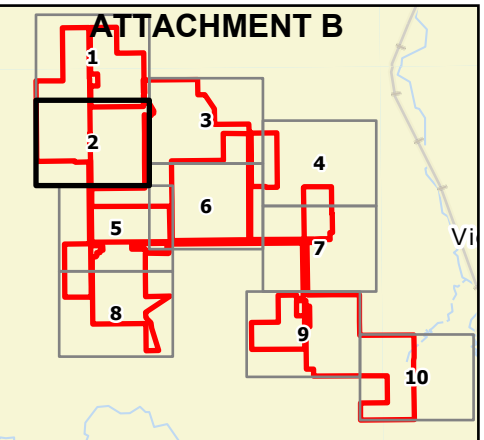
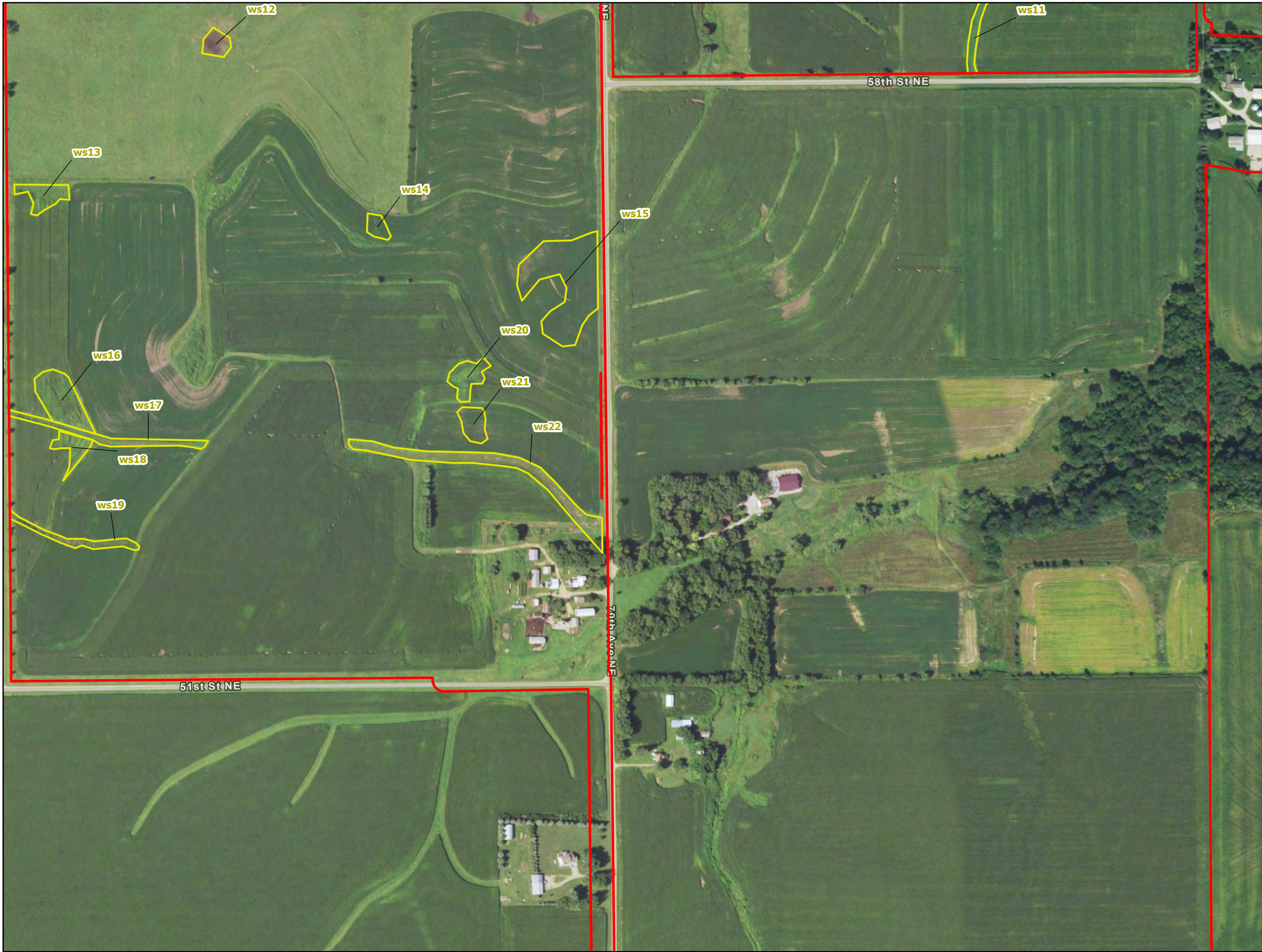




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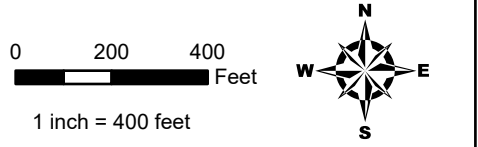
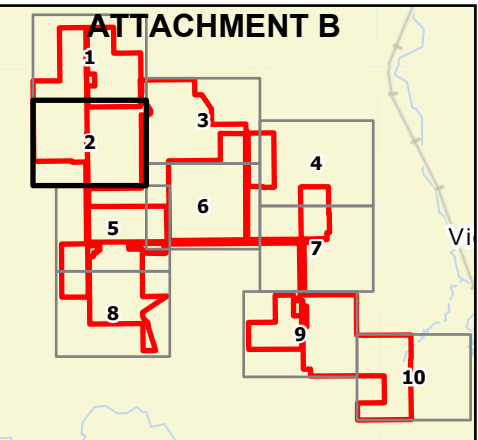




- Survey Area
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- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
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Ranger Power
Olmsted County, MN**



Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmstedInvestigator: Kyle Hanson Legal Description (T, R, S): T107N, R13W, S11**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws011	Area: ws012	Area: ws013	Area: ws014	Area: ws015
8/15/2021	FSA/NAIP	Normal	WS	WS	NV	NV	NV
8/20/2019	FSA/NAIP	Normal	CS	DO	CS	NV	NV
10/4/2017	FSA/NAIP	Normal	WS	DO	CS, AP	NV	NV
10/14/2015	FSA/NAIP	Normal	WS	CS	WS, AP	DO	CS
7/5/2013	FSA/NAIP	Wet	WS	CS	CS	CS	CS
7/1/2010	FSA/NAIP	Normal	NV	CS	WS, AP	NV	NV
8/22/2009	FSA/NAIP	Normal	NV	CS	WS, AP	NV	SS
Normal Climate Condition			Area: ws011	Area: ws012	Area: ws013	Area: ws014	Area: ws015
Number			6	6	6	6	6
Number with wet signatures			4	6	5	1	2
Percent with wet signatures			66.7%	100.0%	83.3%	16.7%	33.3%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments:		TC - Thriving crop during dry conditions

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Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmstedInvestigator: Kyle Hanson Legal Description (T, R, S): T107N, R13W, S11**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws016	Area: ws017	Area: ws018	Area: ws019	Area: ws020
8/15/2021	FSA/NAIP	Normal	NV	CS	NV	CS	NV
8/20/2019	FSA/NAIP	Normal	WS	CS	WS	CS	CS
10/4/2017	FSA/NAIP	Normal	CS	CS	CS	CS	CS
10/14/2015	FSA/NAIP	Normal	NV	WS	NV	WS	NV
7/5/2013	FSA/NAIP	Wet	CS	WS	CS	WS	CS
7/1/2010	FSA/NAIP	Normal	NV	WS	NV	WS	NV
8/22/2009	FSA/NAIP	Normal	SS	WS	SS	WS	CS
Normal Climate Condition			Area: ws016	Area: ws017	Area: ws018	Area: ws019	Area: ws020
Number			6	6	6	6	6
Number with wet signatures			3	3	3	6	3
Percent with wet signatures			50.0%	50.0%	50.0%	100.0%	50.0%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
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Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

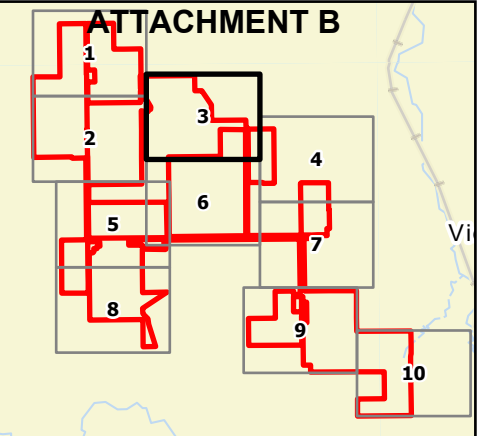
Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmstedInvestigator: Kyle Hanson Legal Description (T, R, S): T107N, R13W, S11**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws021	Area: ws022			
8/15/2021	FSA/NAIP	Normal	AP	WS			
8/20/2019	FSA/NAIP	Normal	NV	CS			
10/4/2017	FSA/NAIP	Normal	NV	WS			
10/14/2015	FSA/NAIP	Normal	NV	WS			
7/5/2013	FSA/NAIP	Wet	CS, SS	WS			
7/1/2010	FSA/NAIP	Normal	NV	CS			
8/22/2009	FSA/NAIP	Normal	NV	NV			
Normal Climate Condition			Area: ws021	Area: ws022			
Number			6	6			
Number with wet signatures			1	5			
Percent with wet signatures			16.7%	83.3%			

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
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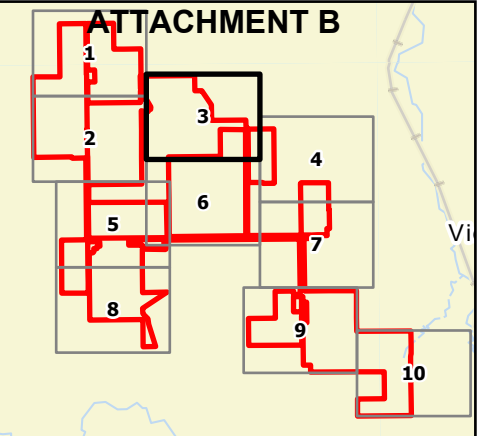
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- Survey Area
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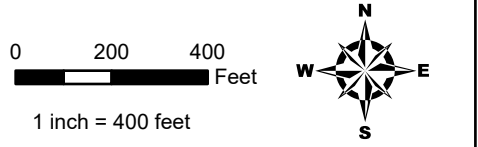
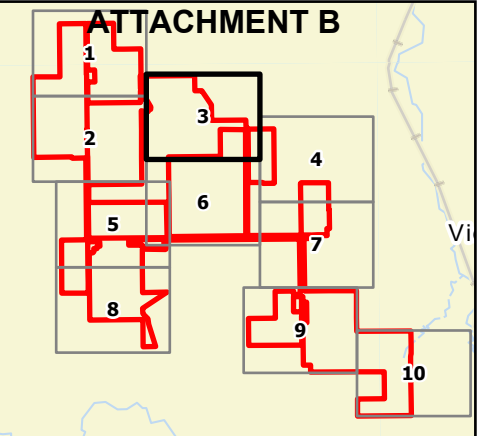
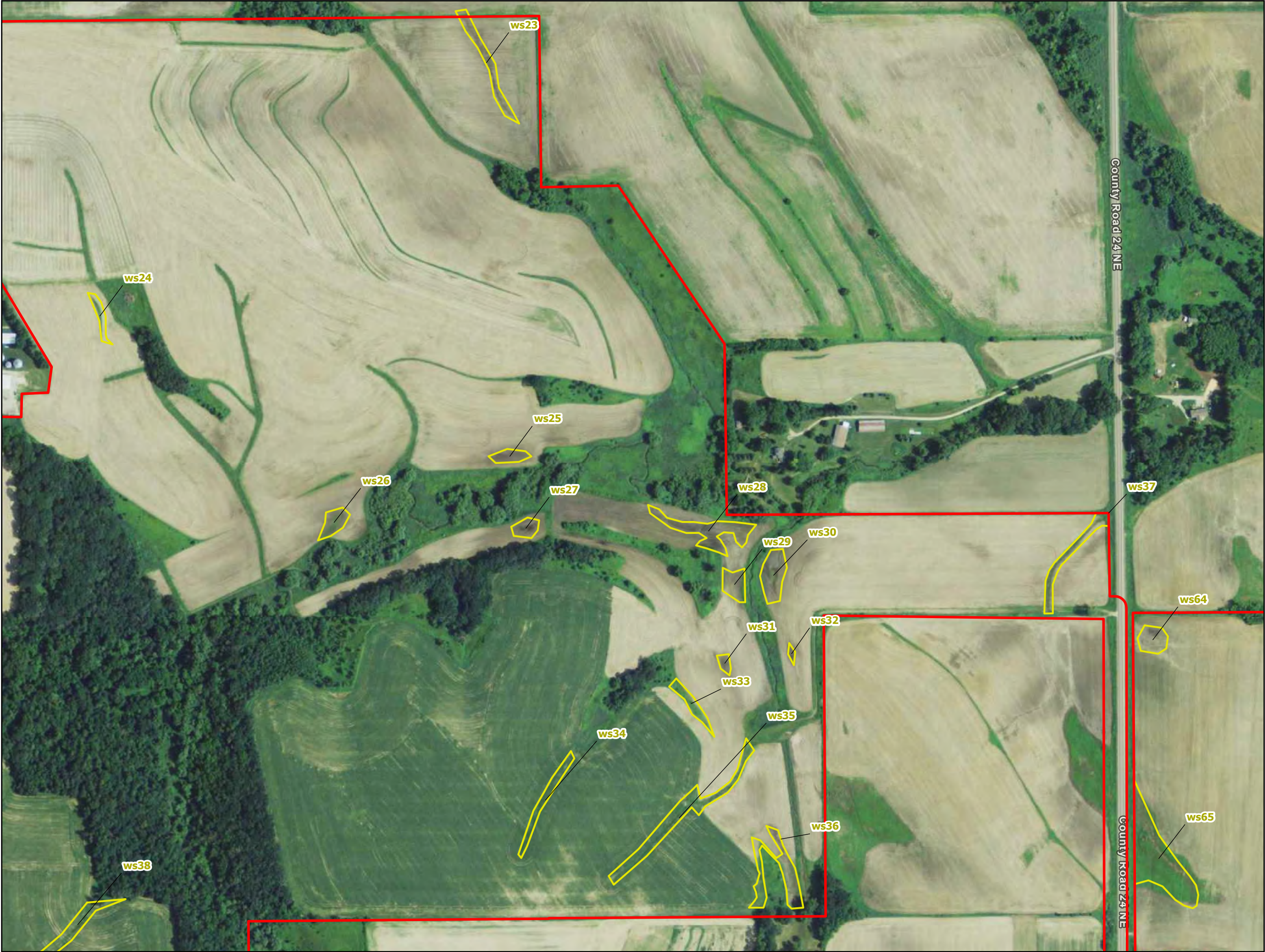




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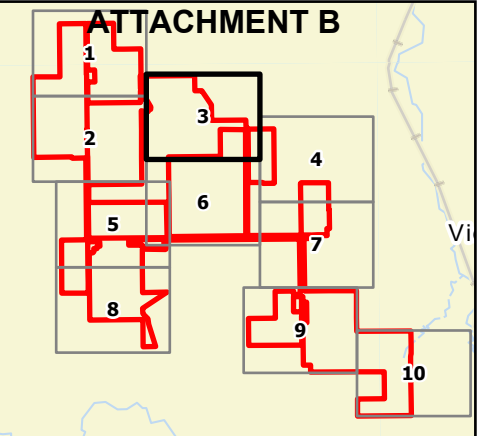
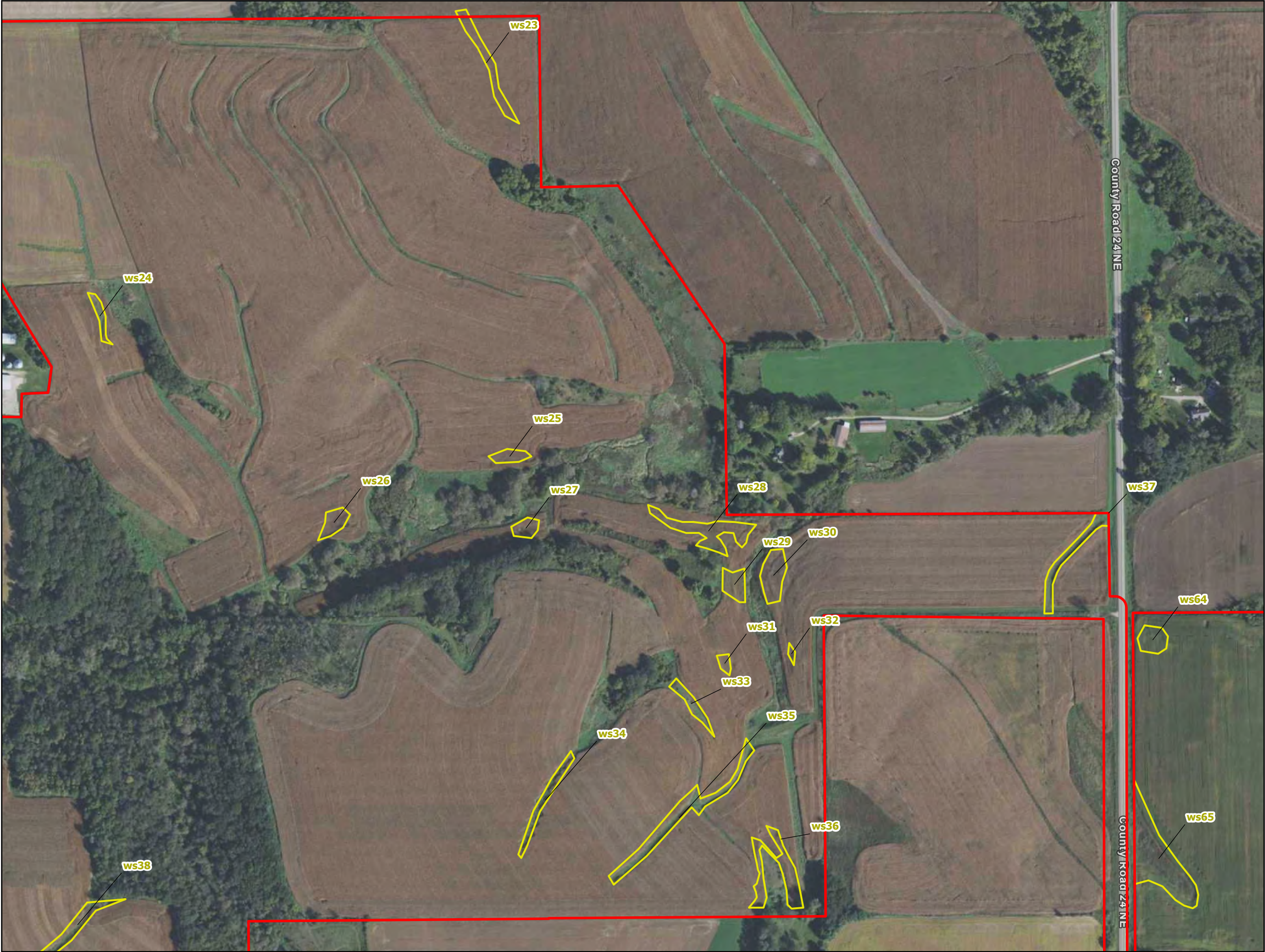




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**FSA Slide Review: NAIP Imagery -
July 2013
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Ranger Power
Olmsted County, MN**

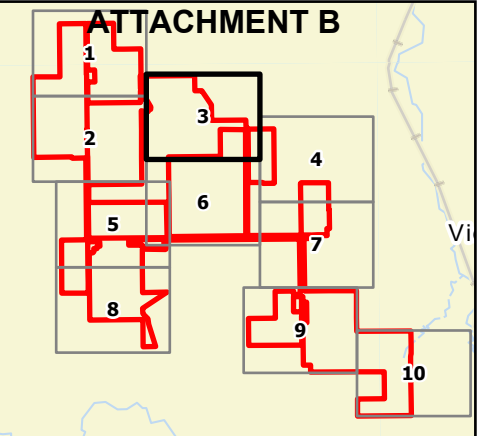




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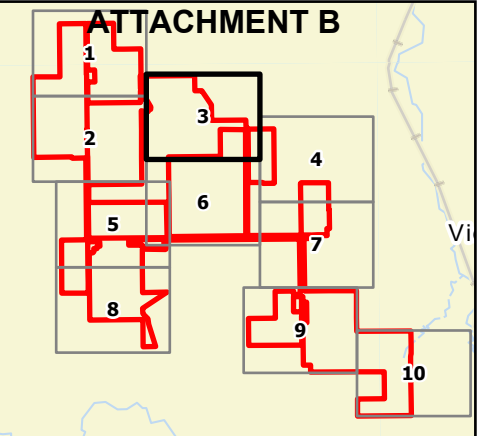




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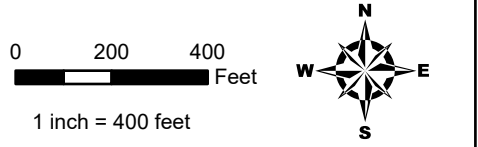
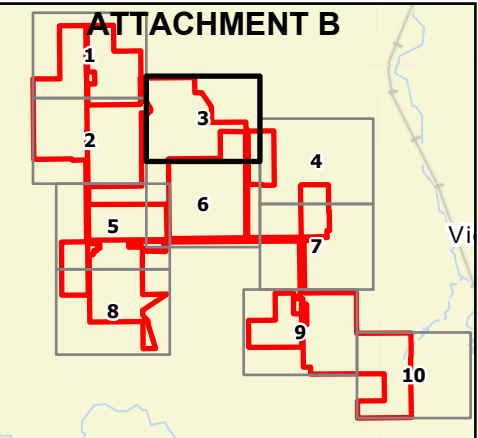




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**FSA Slide Review: NAIP Imagery -
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Ranger Power
Olmsted County, MN**





- Survey Area
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**FSA Slide Review: NAIP Imagery -
August 2021
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**



Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmstedInvestigator: Kyle Hanson Legal Description (T, R, S): T107N, R13W, S12 &13**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws023	Area: ws024	Area: ws025	Area: ws026	Area: ws027
8/15/2021	FSA/NAIP	Normal	NV	CS	NV	NV	NV
8/20/2019	FSA/NAIP	Normal	NV	NV	NV	CS	NV
10/4/2017	FSA/NAIP	Normal	NV	CS	NV	NV	NV
10/14/2015	FSA/NAIP	Normal	NV	WS	NV	CS	CS
7/5/2013	FSA/NAIP	Wet	WS	WS	SS	ES	DO
7/1/2010	FSA/NAIP	Normal	NV	WS	SS	CS	NV
8/22/2009	FSA/NAIP	Normal	NV	WS	NV	NV	NV
Normal Climate Condition			Area: ws023	Area: ws024	Area: ws025	Area: ws026	Area: ws027
Number			6	6	6	6	6
Number with wet signatures			0	5	1	3	1
Percent with wet signatures			0.0%	83.3%	16.7%	50.0%	16.7%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

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Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmstedInvestigator: Kyle Hanson Legal Description (T, R, S): T107N, R13W, S12 &13**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws028	Area: ws029	Area: ws030	Area: ws031	Area: ws032
8/15/2021	FSA/NAIP	Normal	NV	NV	NV	NV	NV
8/20/2019	FSA/NAIP	Normal	NV	NV	NV	NV	NV
10/4/2017	FSA/NAIP	Normal	WS	NV	WS	NV	NV
10/14/2015	FSA/NAIP	Normal	CS	CS	CS	NV	CS
7/5/2013	FSA/NAIP	Wet	DO, SS, CS	CS	WS, DO, CS	SS	SS
7/1/2010	FSA/NAIP	Normal	NV	CS	CS	NV	NV
8/22/2009	FSA/NAIP	Normal	NV	NV	NV	NV	NV
Normal Climate Condition			Area: ws028	Area: ws029	Area: ws030	Area: ws031	Area: ws032
Number			6	6	6	6	6
Number with wet signatures			2	2	2	0	1
Percent with wet signatures			33.3%	33.3%	33.3%	0.0%	16.7%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

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- If less than five (5) images taken during normal climate conditions are available, use an equal number of images taken during wet and dry climate conditions and use as many images as you have available. Describe the results using this methodology in your report.

Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmstedInvestigator: Kyle Hanson Legal Description (T, R, S): T107N, R13W, S12 &13**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws033	Area: ws034	Area: ws035	Area: ws036	Area: ws037
8/15/2021	FSA/NAIP	Normal	WS	WS	WS	NV	CS
8/20/2019	FSA/NAIP	Normal	WS	CS	CS	NV	CS
10/4/2017	FSA/NAIP	Normal	WS	WS	WS	NV	WS
10/14/2015	FSA/NAIP	Normal	WS	AP, WS	WS	CS	WS
7/5/2013	FSA/NAIP	Wet	WS	NV	WS	CS, SS	WS
7/1/2010	FSA/NAIP	Normal	WS	NV	WS	CS	WS
8/22/2009	FSA/NAIP	Normal	WS	CS	WS	NV	WS
Normal Climate Condition			Area: ws033	Area: ws034	Area: ws035	Area: ws036	Area: ws037
Number			6	6	6	6	6
Number with wet signatures			6	5	6	2	6
Percent with wet signatures			100.0%	83.3%	100.0%	33.3%	100.0%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

- Use above key to label image interpretations. It is imperative that the reviewer read and understand the guidance associated with the use of these labels. If alternate labels are used, indicate in box above.
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Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

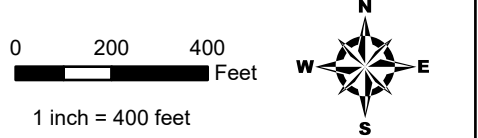
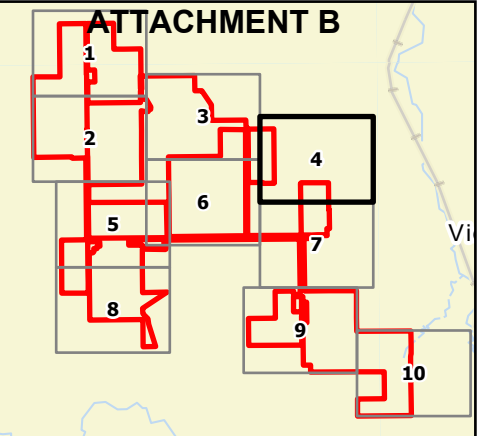
Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmstedInvestigator: Kyle Hanson Legal Description (T, R, S): T107N, R12W, S7 & 18**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws038	Area: ws064	Area: ws065		
8/15/2021	FSA/NAIP	Normal	CS	NV	NV		
8/20/2019	FSA/NAIP	Normal	CS	NV	NV		
10/4/2017	FSA/NAIP	Normal	WS	NV	NV		
10/14/2015	FSA/NAIP	Normal	WS	NV	NV		
7/5/2013	FSA/NAIP	Wet	NV	SS	SS		
7/1/2010	FSA/NAIP	Normal	CS	NV	NV		
8/22/2009	FSA/NAIP	Normal	WS	NV	NV		
Normal Climate Condition			Area: ws038	Area: ws064	Area: ws065		
Number			6	6	6		
Number with wet signatures			6	1	1		
Percent with wet signatures			100.0%	16.7%	16.7%		

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

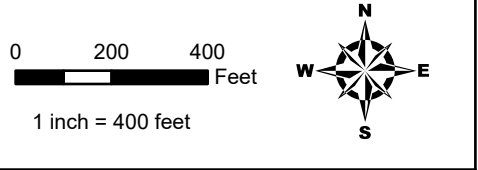
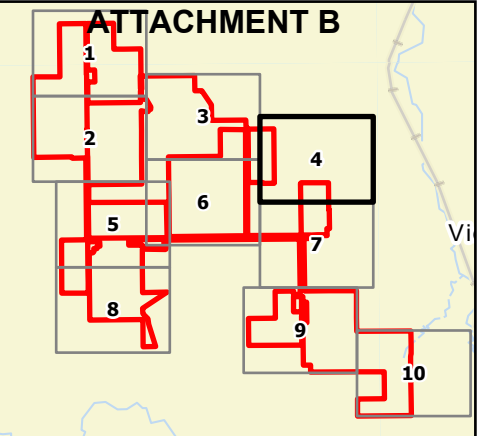
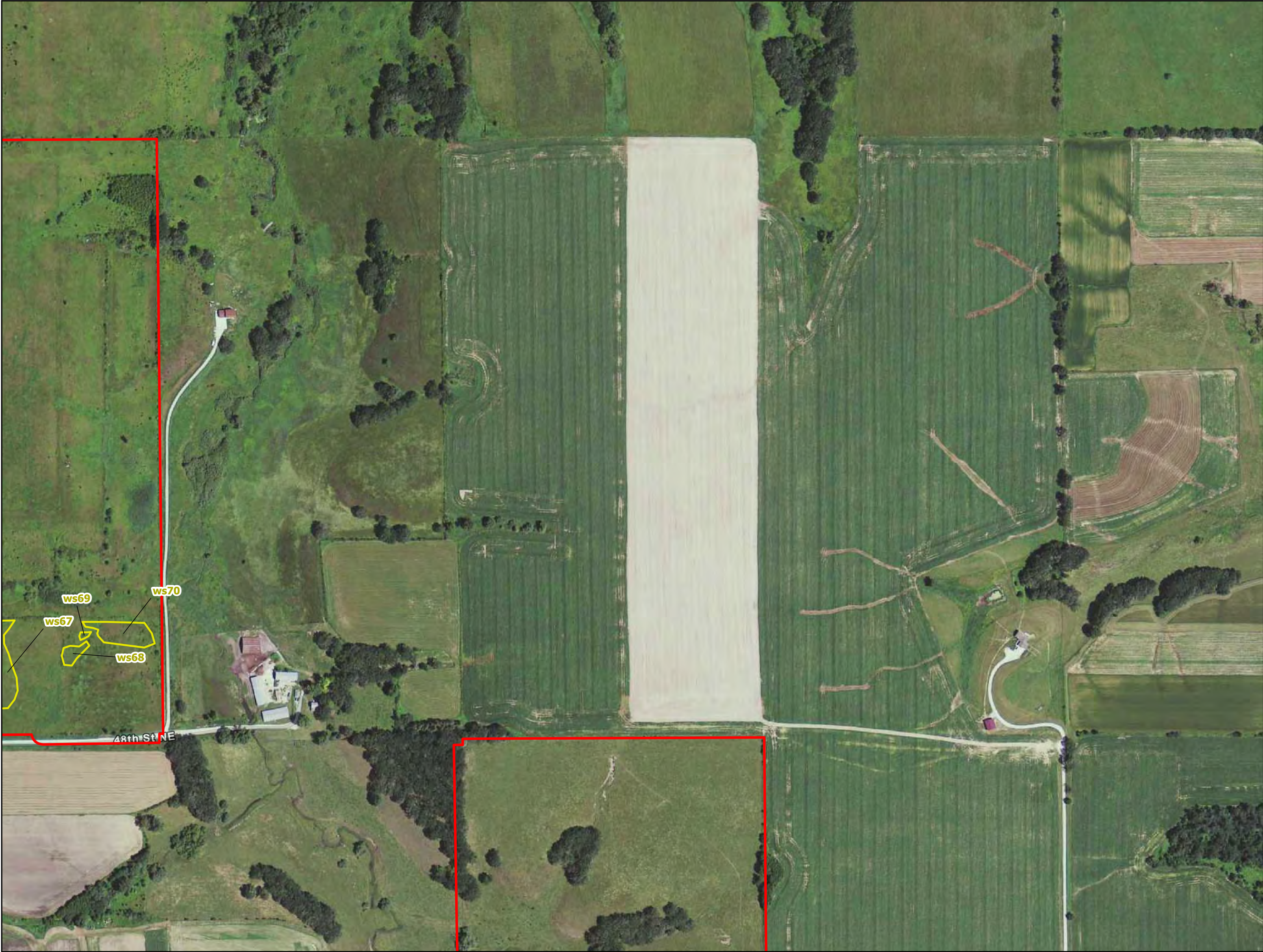
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- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
August 2009
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

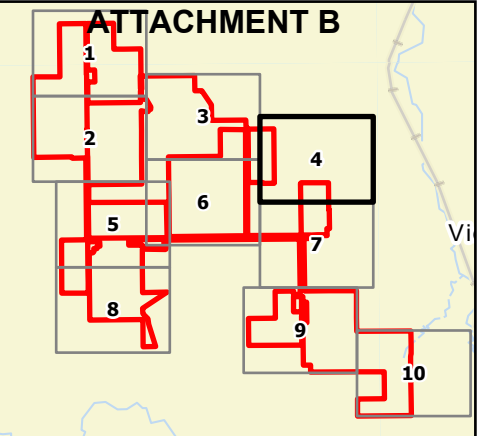




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**FSA Slide Review: NAIP Imagery -
July 2010
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

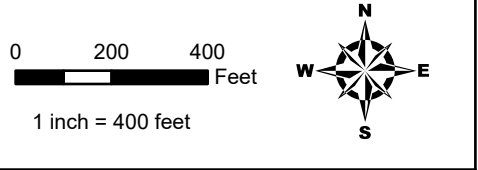
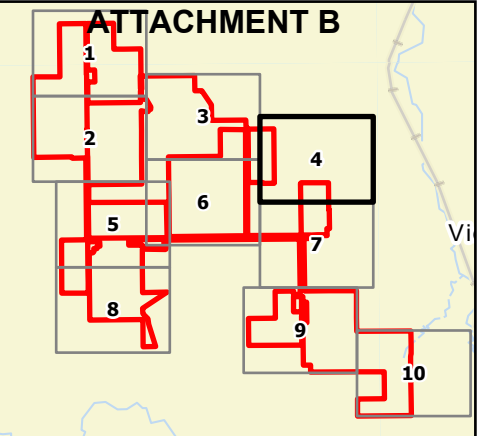




- Survey Area
- Wetness Signature

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July 2013
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Ranger Power
Olmsted County, MN**

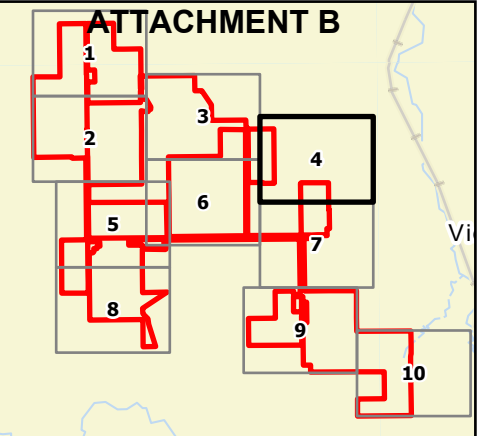




- Survey Area
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**FSA Slide Review: NAIP Imagery -
October 2015
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

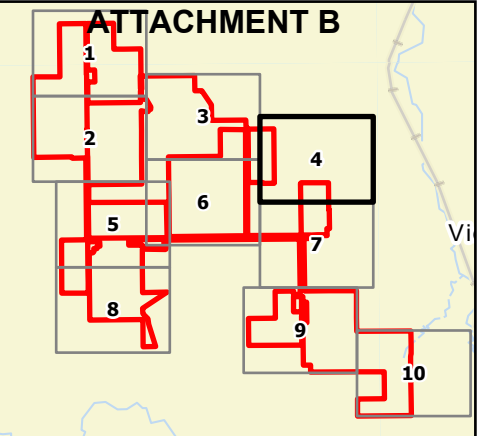




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**FSA Slide Review: NAIP Imagery -
October 2017
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

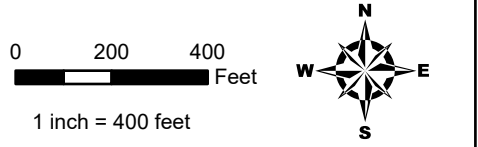
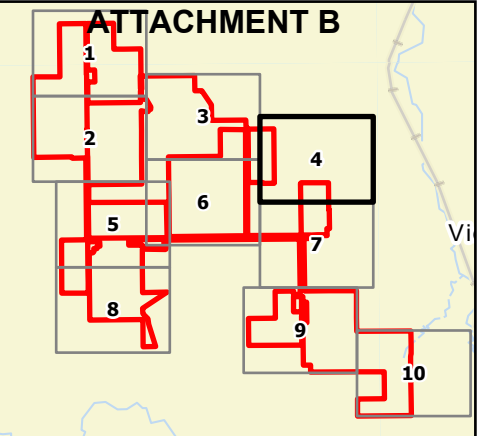




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**FSA Slide Review: NAIP Imagery -
August 2019
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**





- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
August 2021
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**



Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

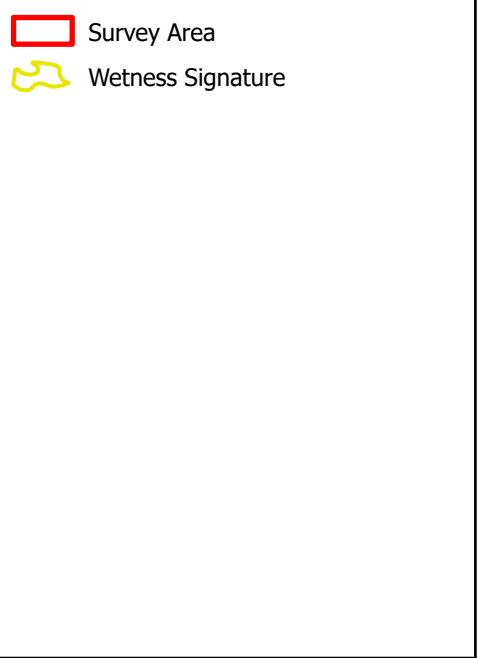
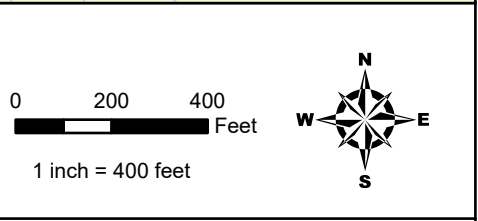
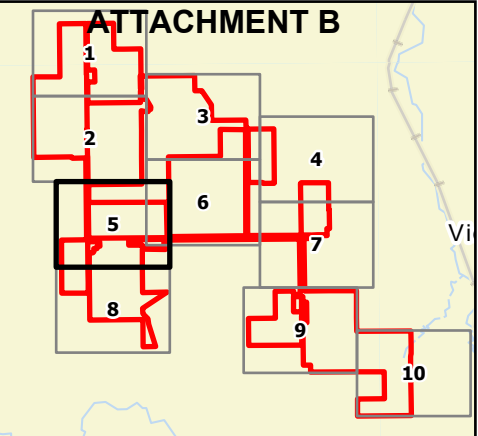
Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmstedInvestigator: Kyle Hanson Legal Description (T, R, S): T107N, R12W, S7 & 18**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws067	Area: ws068	Area: ws069	Area: ws070	
8/15/2021	FSA/NAIP	Normal	NV	NV	NV	NV	
8/20/2019	FSA/NAIP	Normal	CS, AP	NV	NV	NV	
10/4/2017	FSA/NAIP	Normal	AP, DO, WS	NV	NV	DO	
10/14/2015	FSA/NAIP	Normal	CS, AP	NV	NV	CS	
7/5/2013	FSA/NAIP	Wet	WS, DO, AP	WS, SS	SS, CS	SS, CS	
7/1/2010	FSA/NAIP	Normal	NV	NV	NV	NV	
8/22/2009	FSA/NAIP	Normal	NV	NV	NV	NV	
Normal Climate Condition			Area: ws067	Area: ws068	Area: ws069	Area: ws070	
Number			6	6	6	6	
Number with wet signatures			3	0	0	2	
Percent with wet signatures			50.0%	0.0%	0.0%	33.3%	

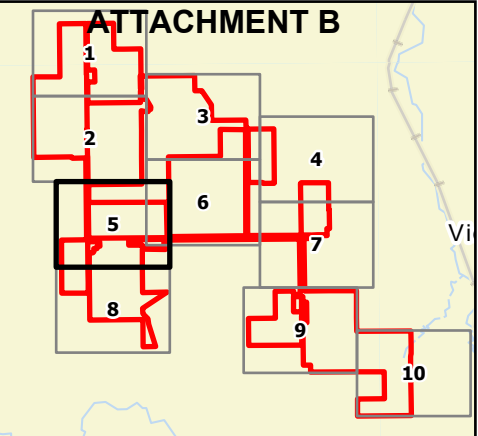
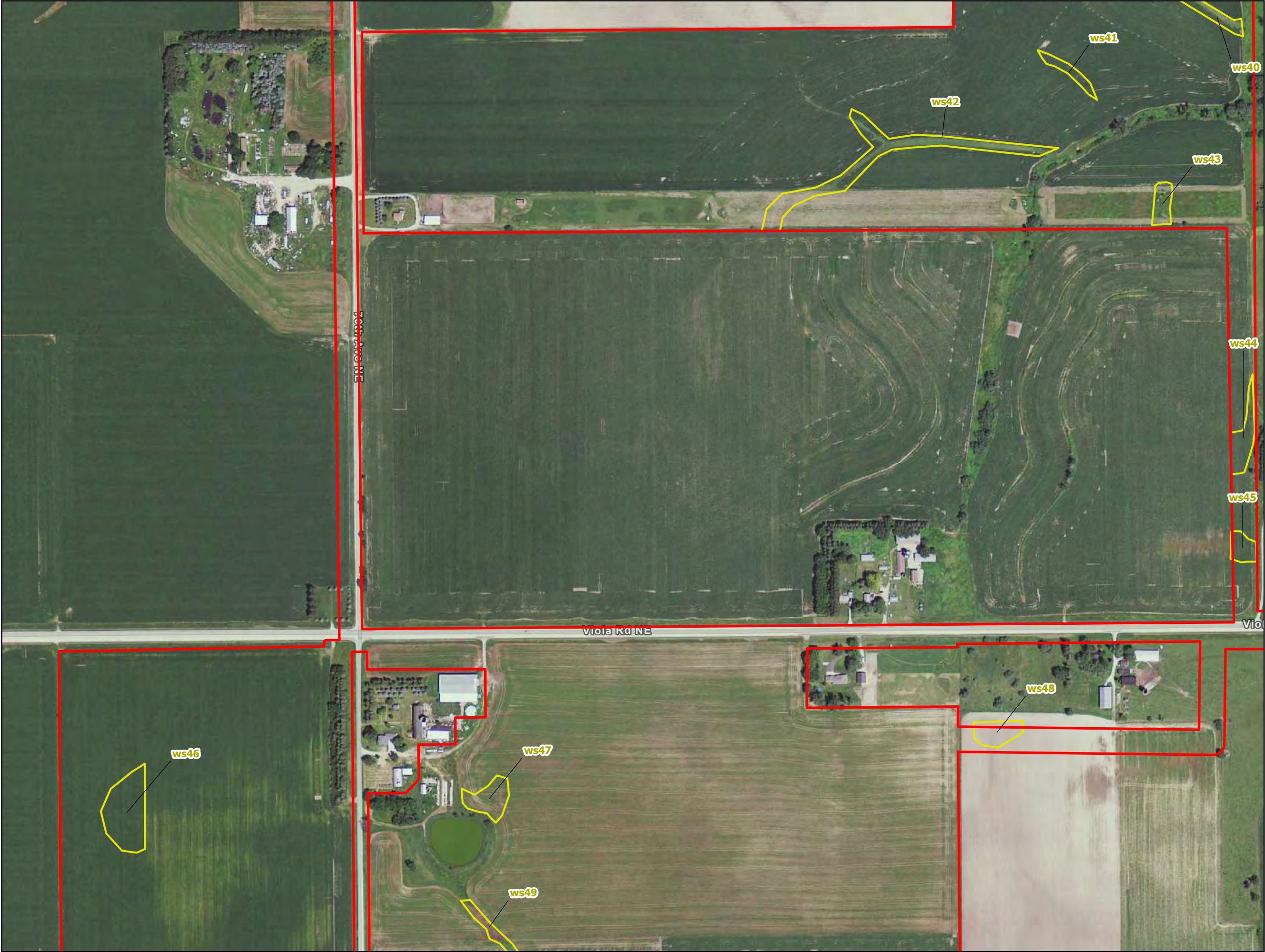
KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

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**FSA Slide Review: NAIP Imagery -
August 2009
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

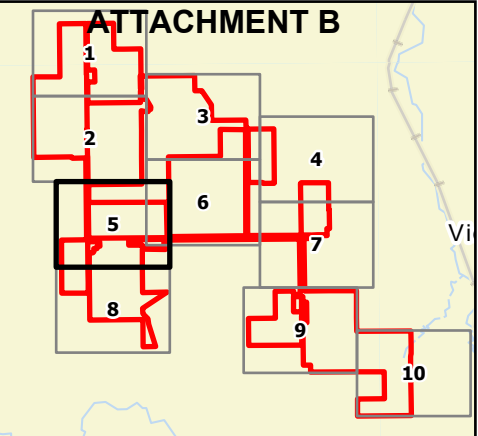




- Survey Area
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**FSA Slide Review: NAIP Imagery -
July 2010
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

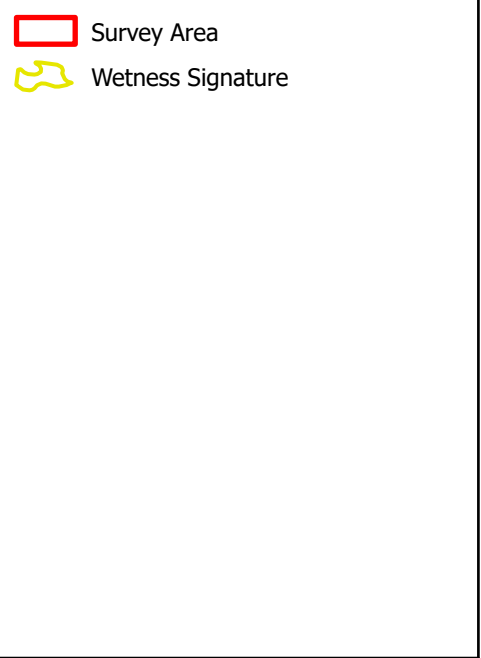
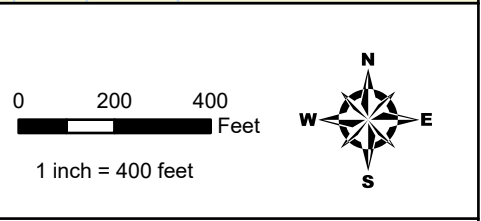
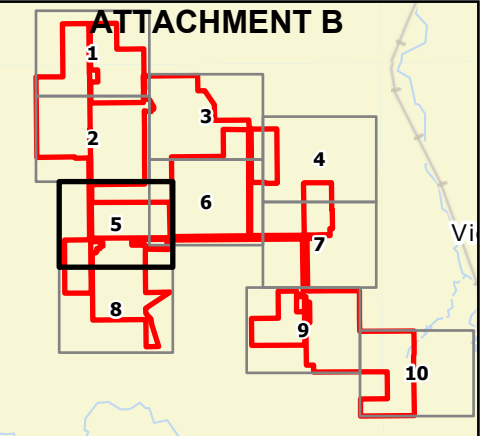
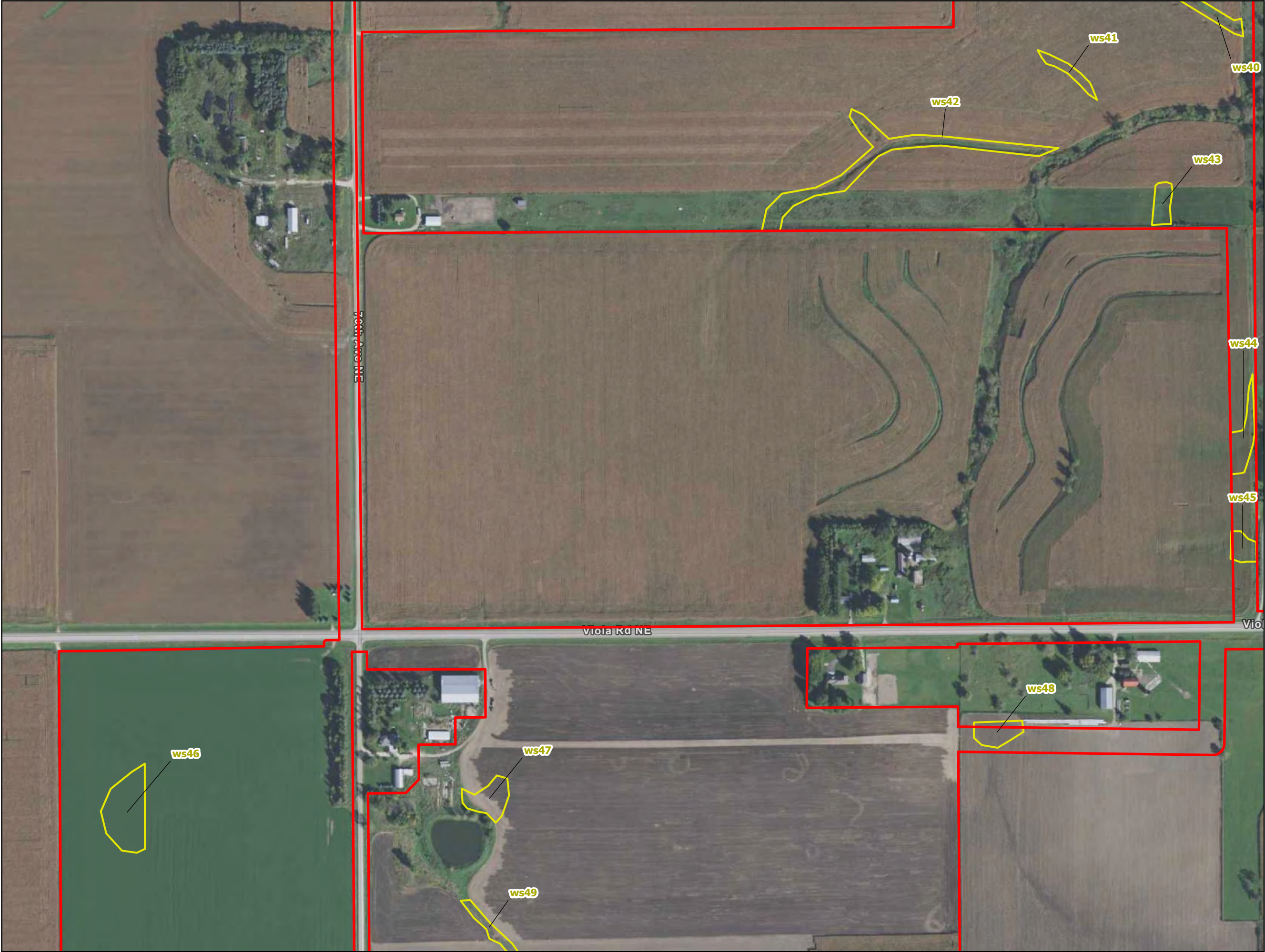




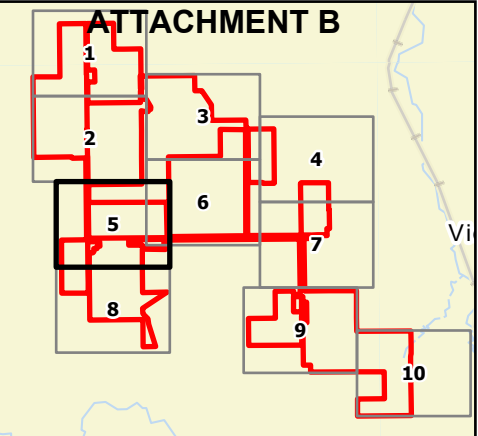
- Survey Area
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**FSA Slide Review: NAIP Imagery -
July 2013
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**





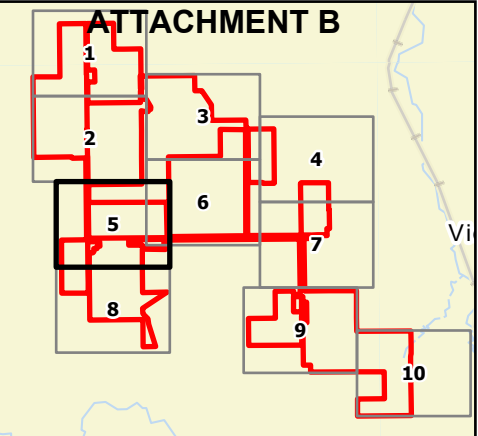
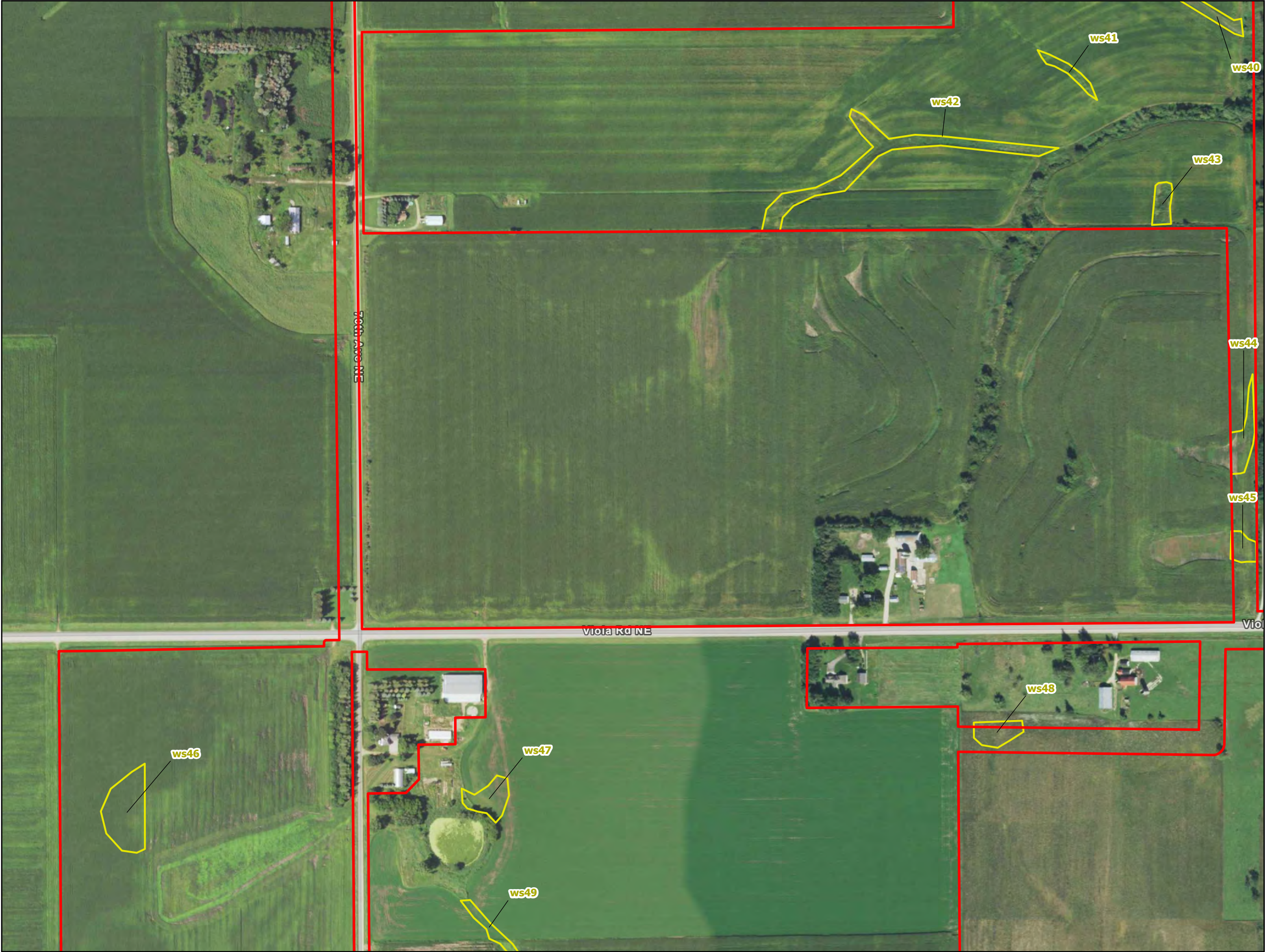
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- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
October 2017
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

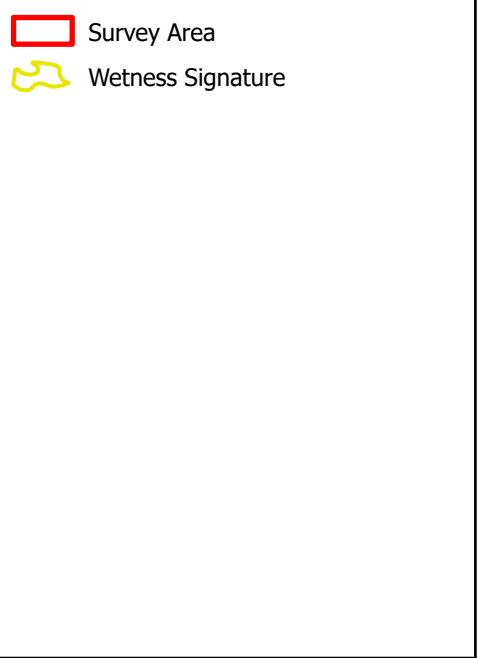
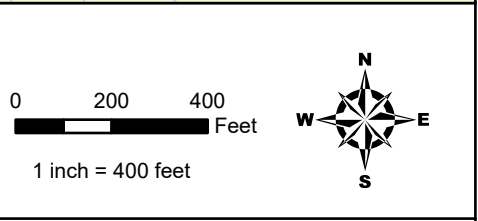
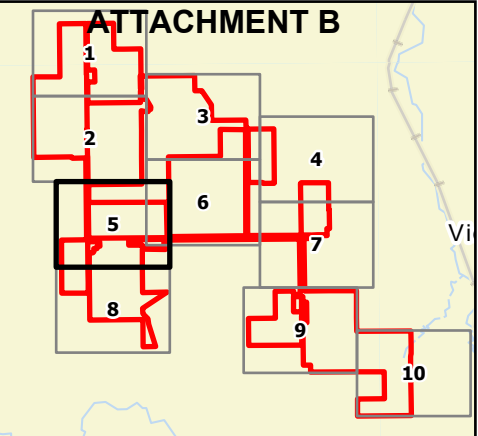




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**FSA Slide Review: NAIP Imagery -
August 2019
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**





FSA Slide Review: NAIP Imagery -
August 2021
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN



Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): T107N, R13W, S13**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws040	Area: ws041	Area: ws042	Area: ws043	Area: ws044
8/15/2021	FSA/NAIP	Normal	CS	NV	WS	WS	NV
8/20/2019	FSA/NAIP	Normal	CS	CS	NV	WS	CS, AP
10/4/2017	FSA/NAIP	Normal	WS	NV	WS	WS	CS, DO
10/14/2015	FSA/NAIP	Normal	WS	NV	WS, CS	NV	NV
7/5/2013	FSA/NAIP	Wet	WS	WS	WS	NV	CS
7/1/2010	FSA/NAIP	Normal	WS	NV	WS	WS	NV
8/22/2009	FSA/NAIP	Normal	WS	NV	WS	NV	NV
Normal Climate Condition			Area: ws040	Area: ws041	Area: ws042	Area: ws043	Area: ws044
Number			6	6	6	6	6
Number with wet signatures			6	1	6	4	2
Percent with wet signatures			100.0%	16.7%	100.0%	66.7%	33.3%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments:		TC - Thriving crop during dry conditions

- Use above key to label image interpretations. It is imperative that the reviewer read and understand the guidance associated with the use of these labels. If alternate labels are used, indicate in box above.
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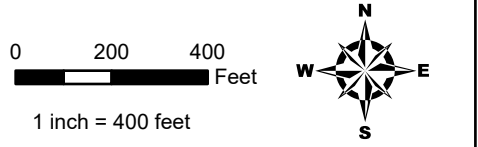
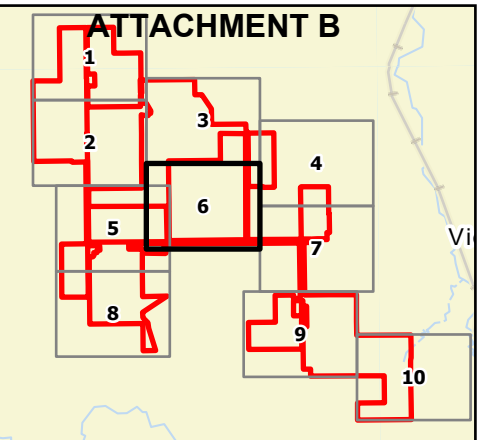
Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): T107N, R13W, S13**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws045	Area: ws046	Area: ws047	Area: ws048	Area: ws049
8/15/2021	FSA/NAIP	Normal	NV	NV	NV	NV	CS
8/20/2019	FSA/NAIP	Normal	CS, AP	CS	NV	NV	CS
10/4/2017	FSA/NAIP	Normal	CS	NV	NSS	NV	WS
10/14/2015	FSA/NAIP	Normal	NV	NV	AP	NV	WS
7/5/2013	FSA/NAIP	Wet	CS	AP, CS	AP, WS	WS, CS	WS
7/1/2010	FSA/NAIP	Normal	NV	NV	NV	NV	CS
8/22/2009	FSA/NAIP	Normal	SS	NV	NV	NV	WS
Normal Climate Condition			Area: ws045	Area: ws046	Area: ws047	Area: ws048	Area: ws049
Number			6	6	6	6	6
Number with wet signatures			3	1	1	0	6
Percent with wet signatures			50.0%	16.7%	16.7%	0.0%	100.0%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

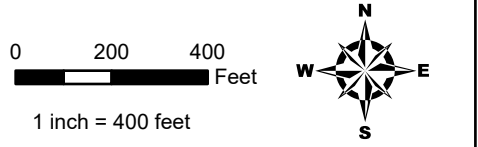
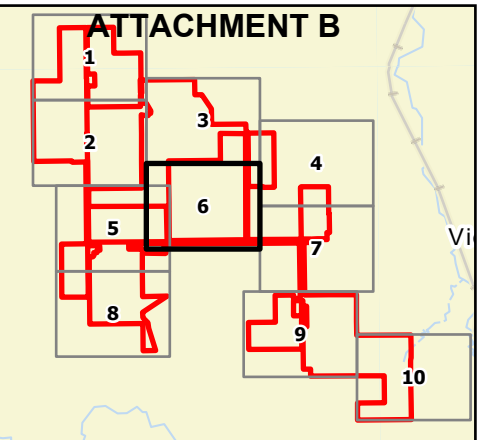
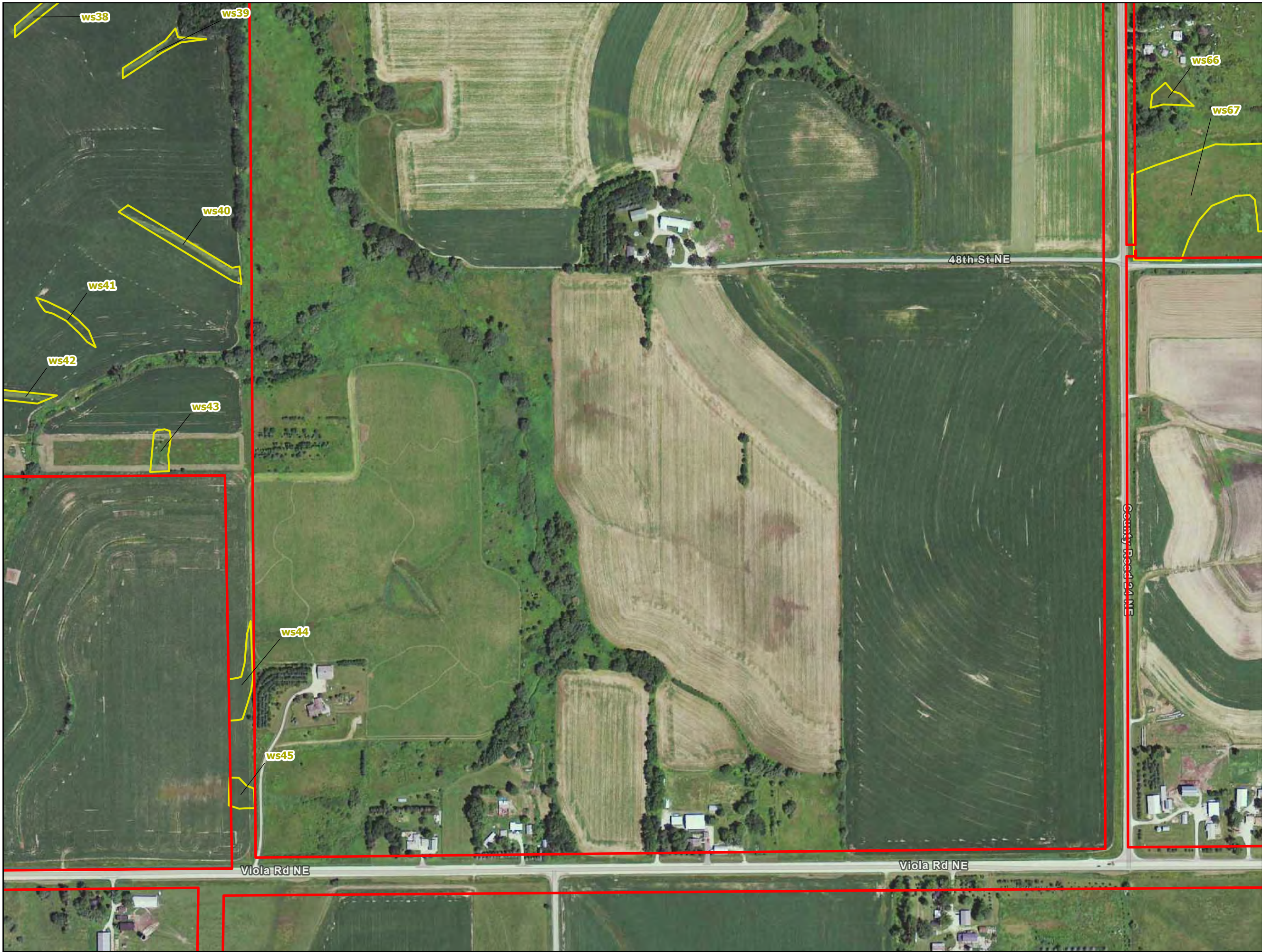
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- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
August 2009
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

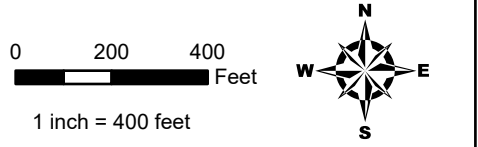
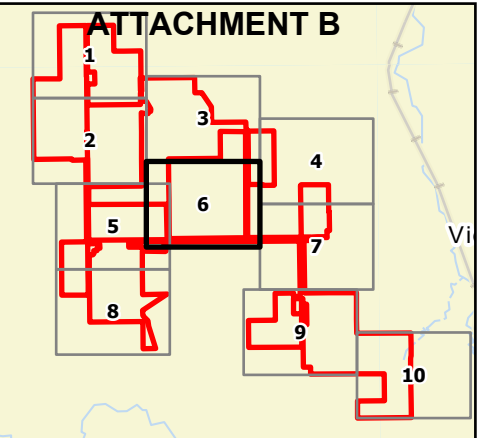




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**FSA Slide Review: NAIP Imagery -
July 2010
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

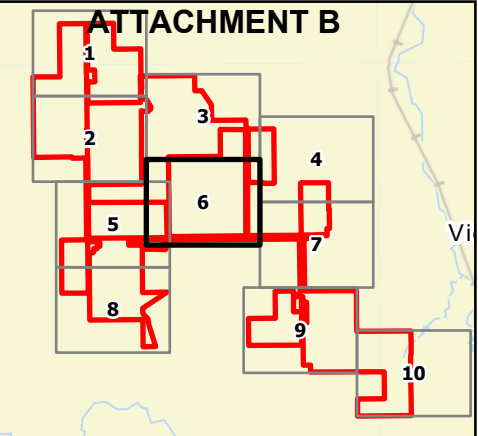
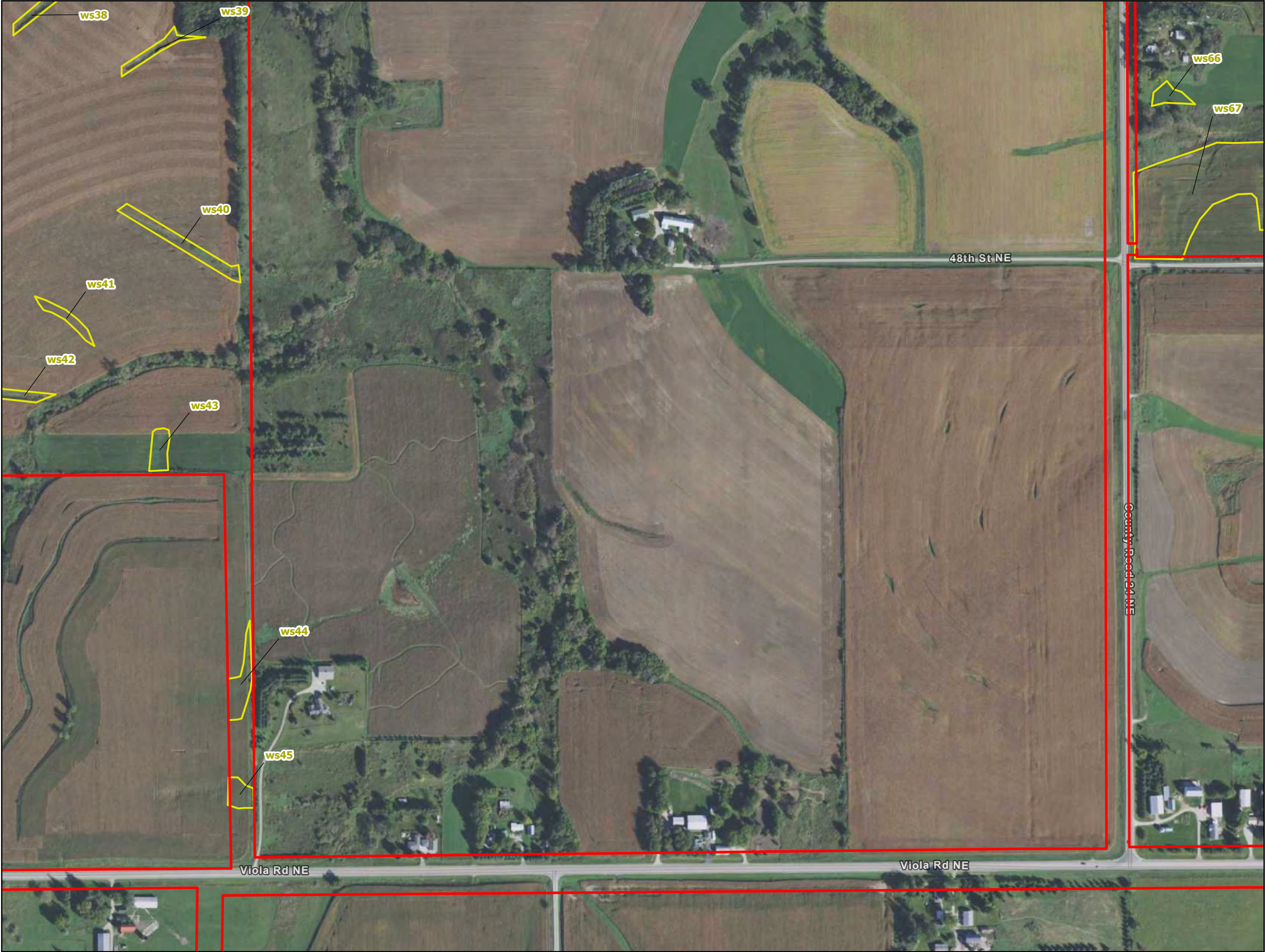




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**FSA Slide Review: NAIP Imagery -
July 2013
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

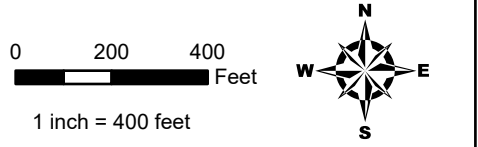
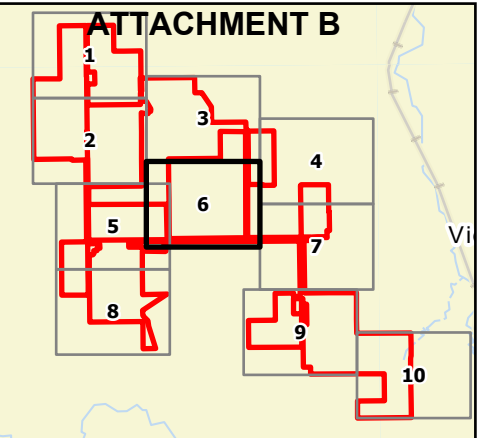
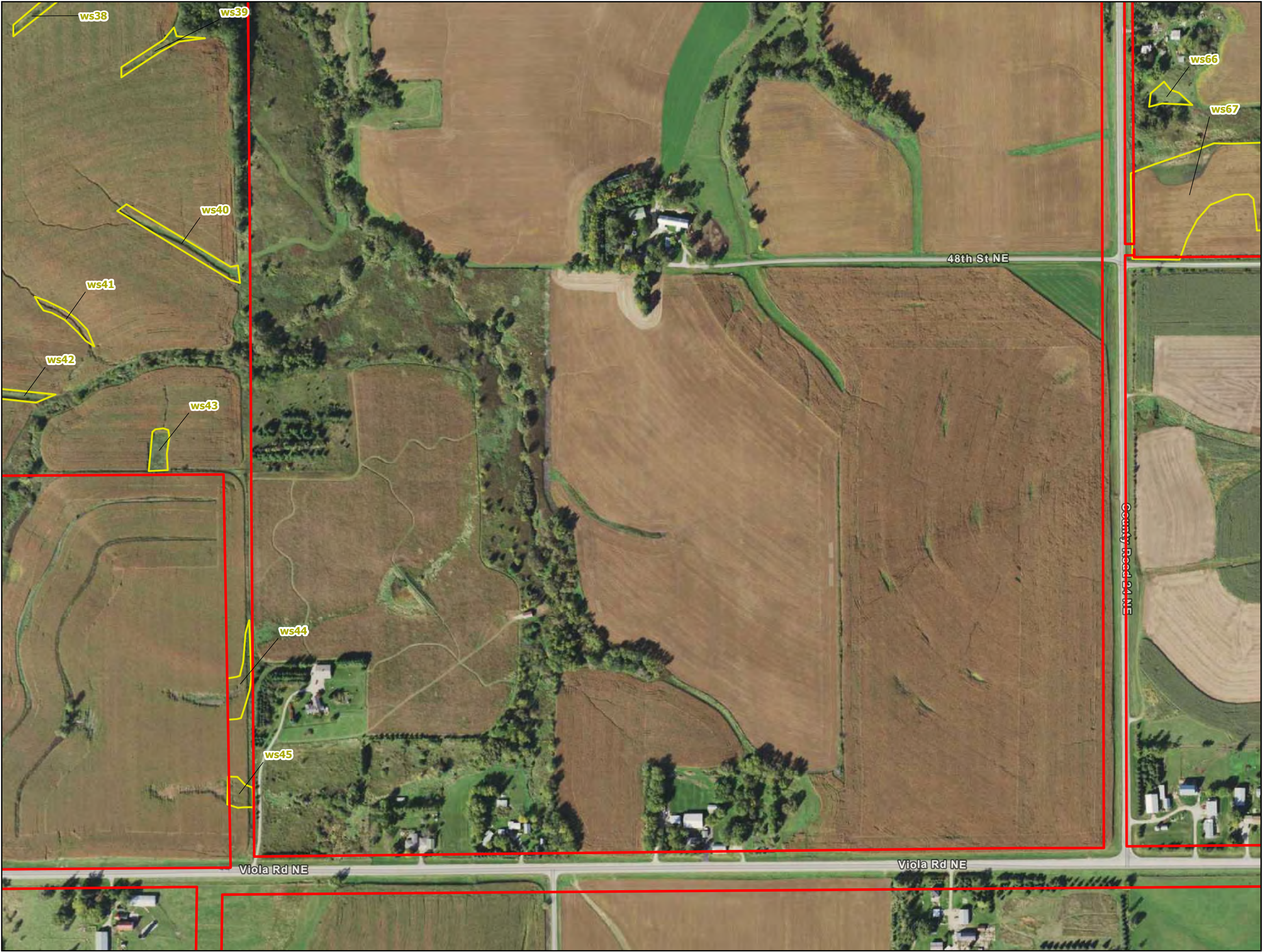




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**FSA Slide Review: NAIP Imagery -
October 2015
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

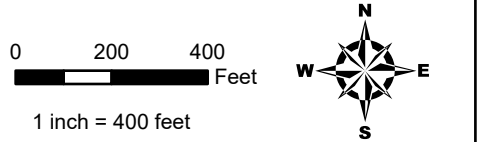
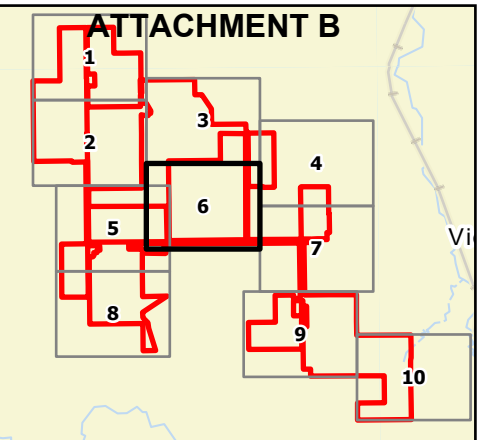
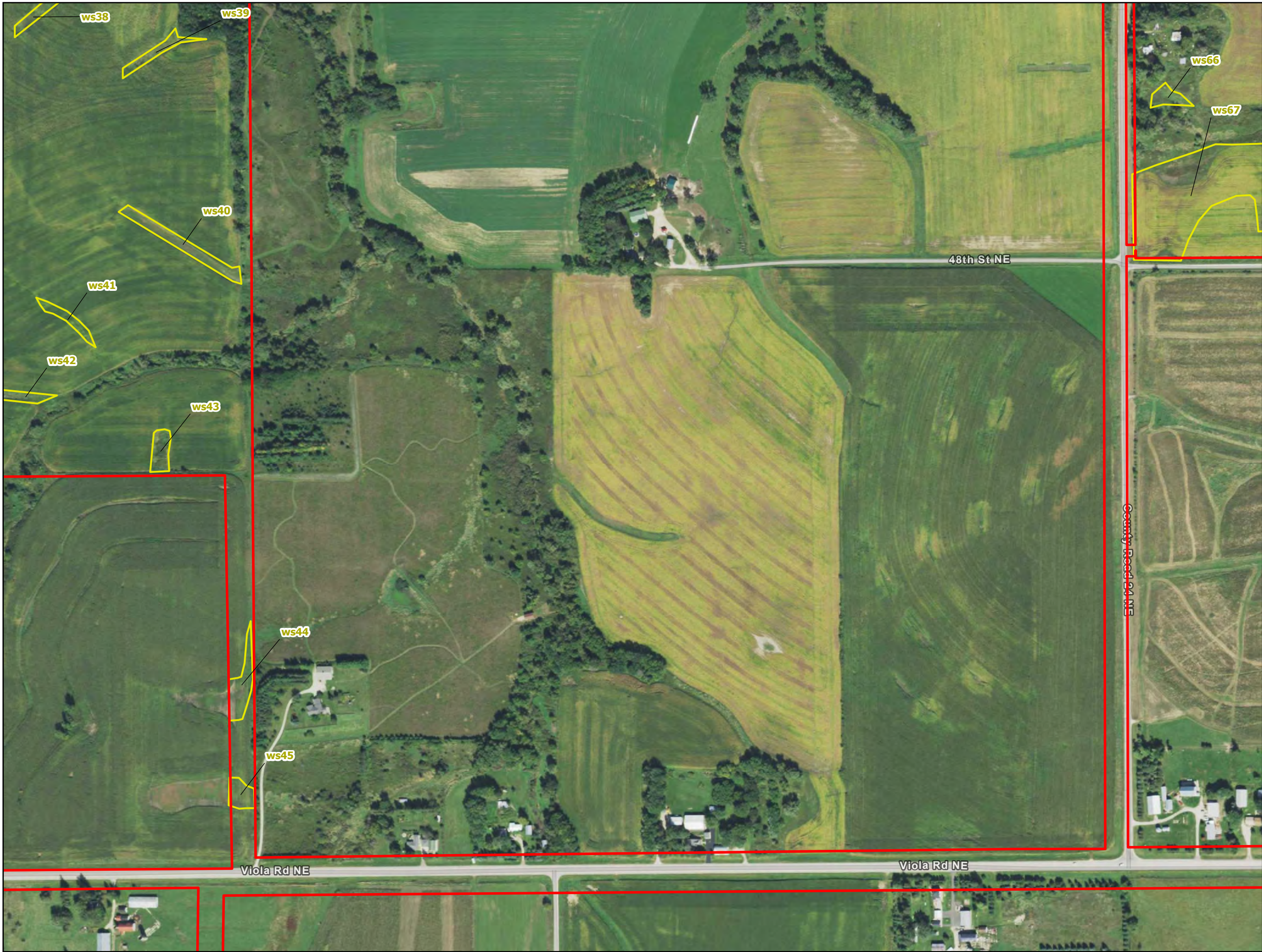




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**FSA Slide Review: NAIP Imagery -
October 2017
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**





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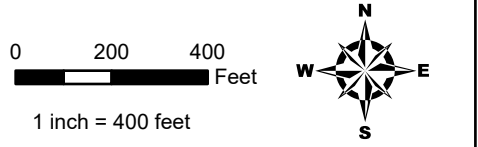
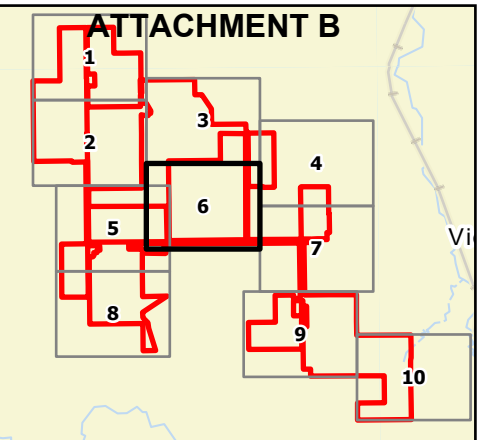
**FSA Slide Review: NAIP Imagery -
August 2019
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

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For Environmental Review Purposes Only

Source: Z:\Clients\Q_1\Ranger_Power\Lemon_Hill_Solar\ArcGIS\Bibliocal\001_ArcPro\DesktopReview_2025\LH_DesktopReview_2025.aprx
Date: (6/10/2025)



- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
August 2021
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

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For Environmental Review Purposes Only

Source: Z:\Clients\Q_1\Ranger_Power\Lemon_Hill_Solar\ArcGIS\Biology\001_ArcPro\DesktopReview_2025\LH_DesktopReview_2025.aprx Date: (6/10/2025)

Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): T107N, R13W, S13**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws038	Area: ws039	Area: ws040	Area: ws041	Area: ws042
8/15/2021	FSA/NAIP	Normal	CS	CS	CS	NV	WS
8/20/2019	FSA/NAIP	Normal	CS	CS	CS	CS	NV
10/4/2017	FSA/NAIP	Normal	WS	CS	WS	NV	WS
10/14/2015	FSA/NAIP	Normal	WS	WS	WS	NV	WS, CS
7/5/2013	FSA/NAIP	Wet	NV	NV	WS	WS	WS
7/1/2010	FSA/NAIP	Normal	CS	CS	WS	NV	WS
8/22/2009	FSA/NAIP	Normal	WS	WS	WS	NV	WS
Normal Climate Condition			Area: ws038	Area: ws039	Area: ws040	Area: ws041	Area: ws042
Number			6	6	6	6	6
Number with wet signatures			6	6	6	1	6
Percent with wet signatures			100.0%	100.0%	100.0%	16.7%	100.0%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

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Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

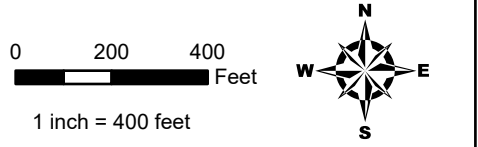
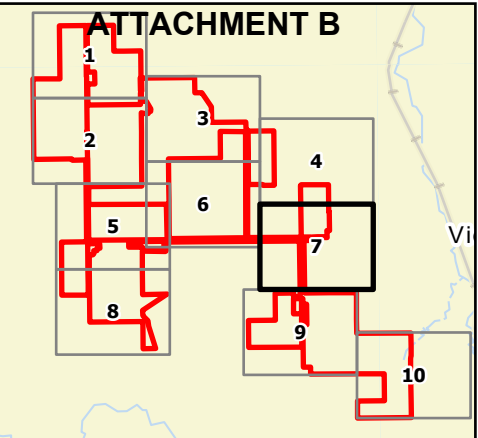
Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): T107N, R12W, R13W, S13, S18**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws043	Area: ws044	Area: ws045	Area: ws066	Area: ws067
8/15/2021	FSA/NAIP	Normal	WS	NV	NV	WS	NV
8/20/2019	FSA/NAIP	Normal	WS	CS, AP	CS, AP	WS	CS, AP
10/4/2017	FSA/NAIP	Normal	WS	CS, DO	CS	NV	AP, DO, WS
10/14/2015	FSA/NAIP	Normal	NV	NV	NV	NV	CS, AP
7/5/2013	FSA/NAIP	Wet	NV	CS	CS	SS	WS, DO, AP
7/1/2010	FSA/NAIP	Normal	WS	NV	NV	NV	NV
8/22/2009	FSA/NAIP	Normal	NV	NV	SS	NV	NV
Normal Climate Condition			Area: ws043	Area: ws044	Area: ws045	Area: ws066	Area: ws067
Number			6	6	6	6	6
Number with wet signatures			4	2	3	2	3
Percent with wet signatures			66.7%	33.3%	50.0%	33.3%	50.0%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

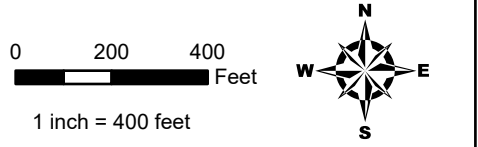
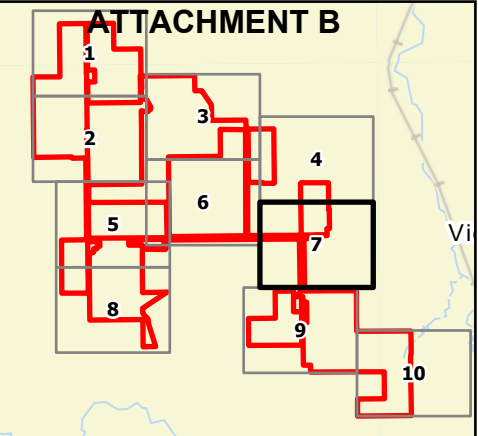
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- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
August 2009
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

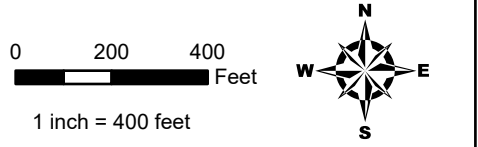
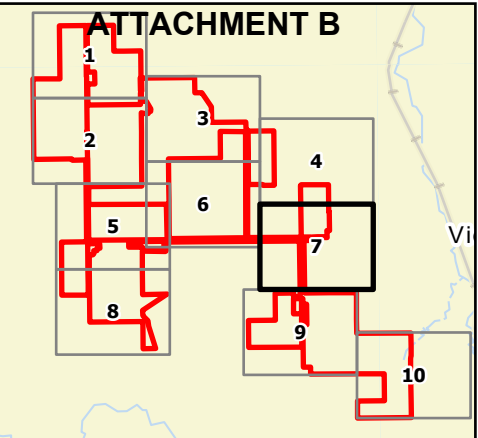




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**FSA Slide Review: NAIP Imagery -
July 2010
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

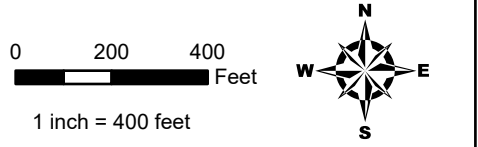
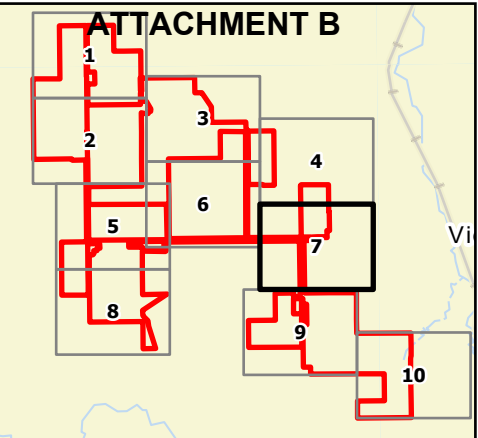




- Survey Area
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**FSA Slide Review: NAIP Imagery -
July 2013
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

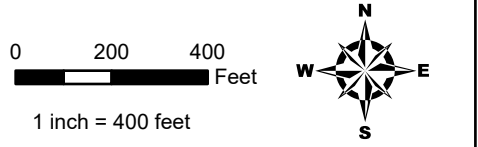
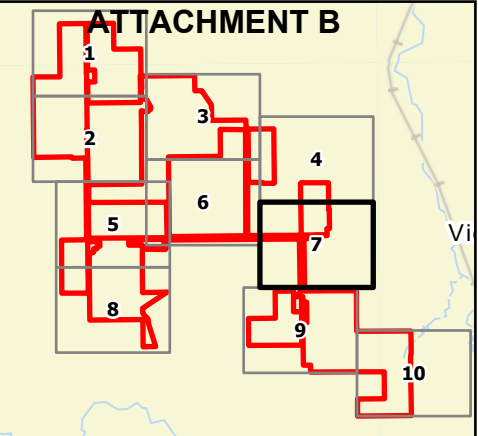
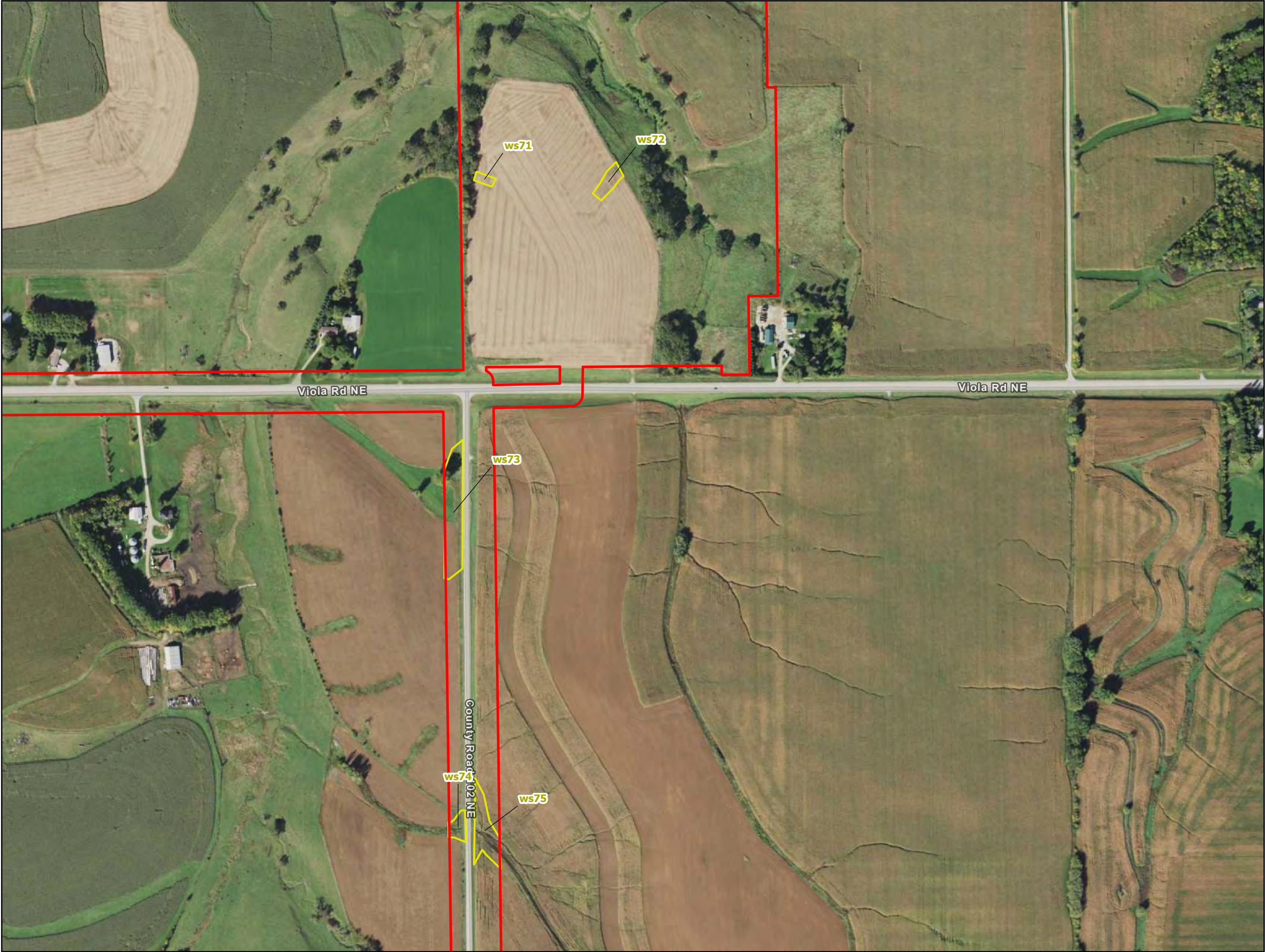




- Survey Area
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**FSA Slide Review: NAIP Imagery -
October 2015
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

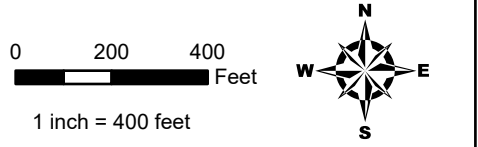
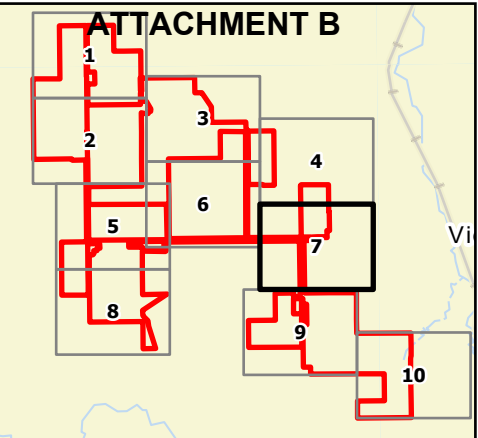




- Survey Area
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**FSA Slide Review: NAIP Imagery -
October 2017
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

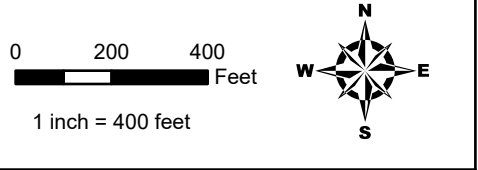
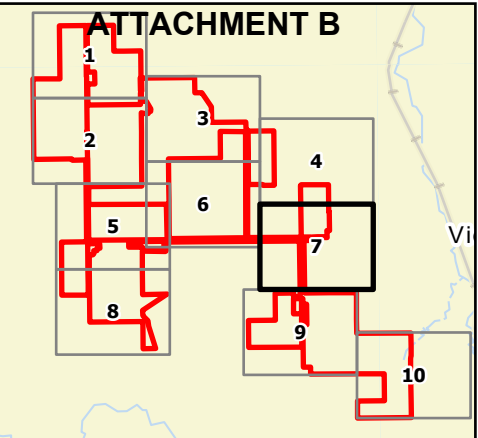




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**FSA Slide Review: NAIP Imagery -
August 2019
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**





- Survey Area
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**FSA Slide Review: NAIP Imagery -
August 2021
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**



Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

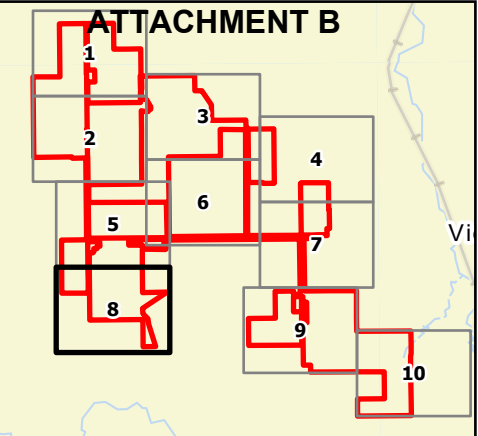
Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): 107N, R12W, S17**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws071	Area: ws072	Area: ws073	Area: ws074	Area: ws075
8/15/2021	FSA/NAIP	Normal	NV	NV	NV	AP	CS
8/20/2019	FSA/NAIP	Normal	NV	NV	CS, AP	AP	AP
10/4/2017	FSA/NAIP	Normal	NV	NV	WS	WS	WS, CS
10/14/2015	FSA/NAIP	Normal	NSS	NSS	WS	WS	CS, WS
7/5/2013	FSA/NAIP	Wet	WS	WS	WS, CS, AP	WS	CS, WS
7/1/2010	FSA/NAIP	Normal	WS	CS	WS, AP	WS	CS
8/22/2009	FSA/NAIP	Normal	WS	WS	WS	NV	CS
Normal Climate Condition			Area: ws071	Area: ws072	Area: ws073	Area: ws074	Area: ws075
Number			6	6	6	6	6
Number with wet signatures			2	2	5	5	6
Percent with wet signatures			33.3%	33.3%	83.3%	83.3%	100.0%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

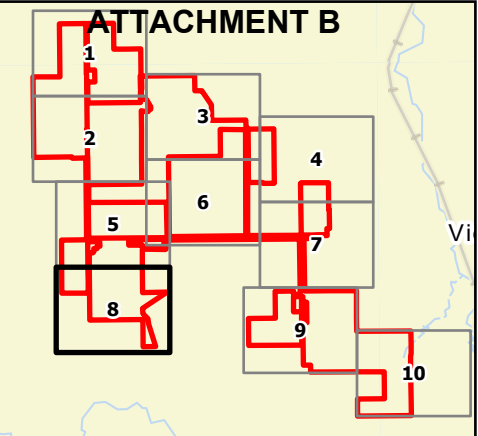
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- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
August 2009
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

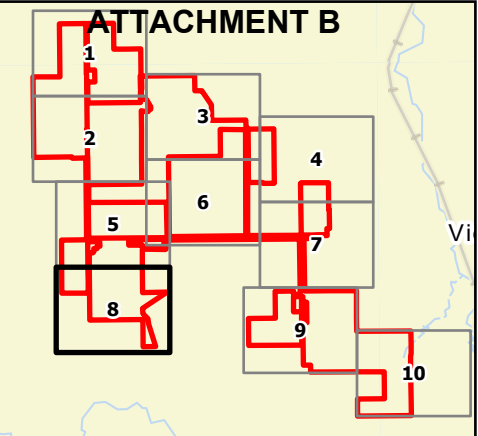




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**FSA Slide Review: NAIP Imagery -
July 2010
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

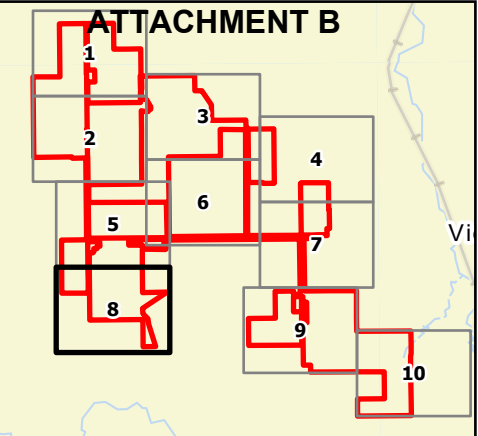
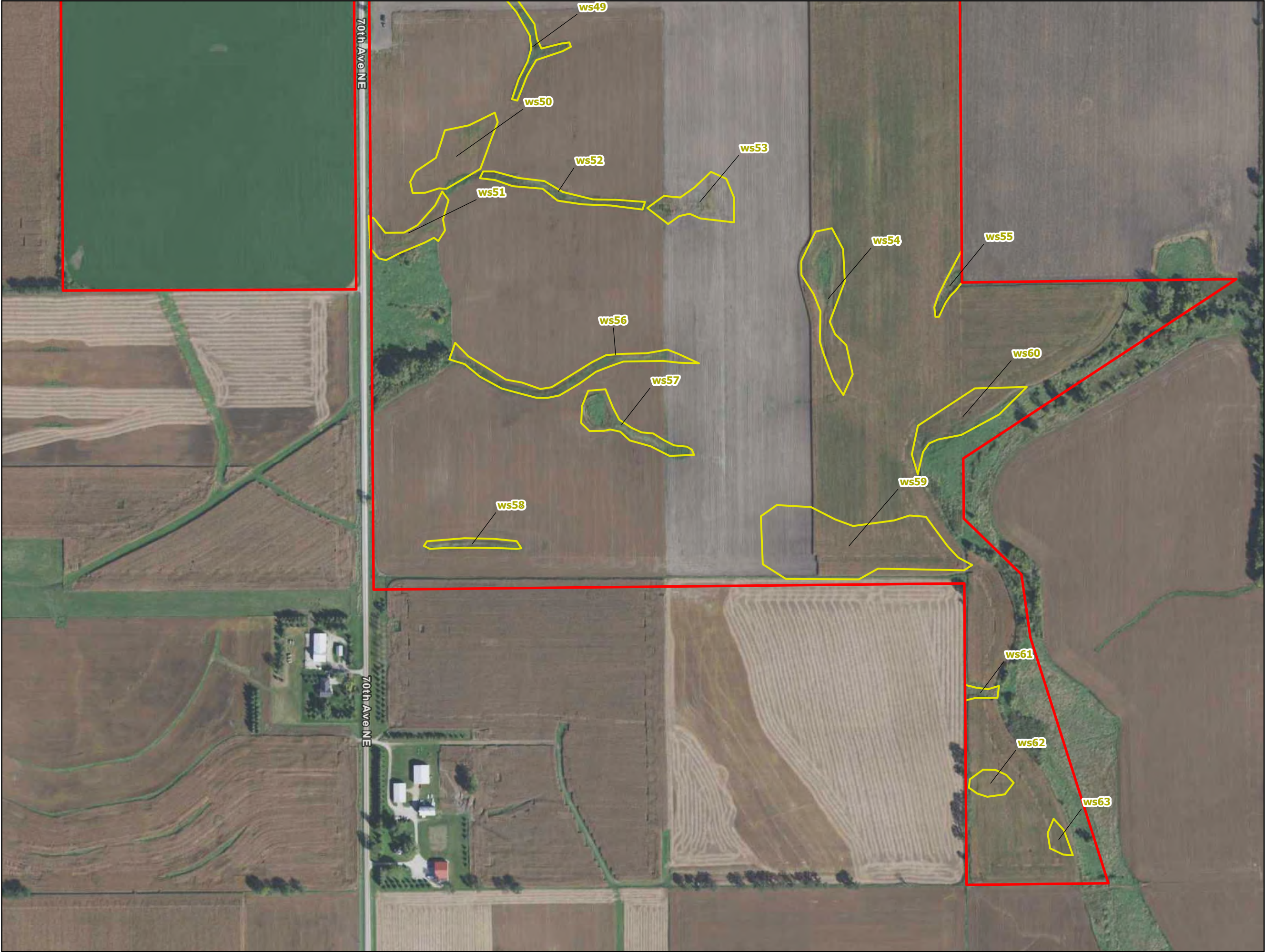




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**FSA Slide Review: NAIP Imagery -
July 2013
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

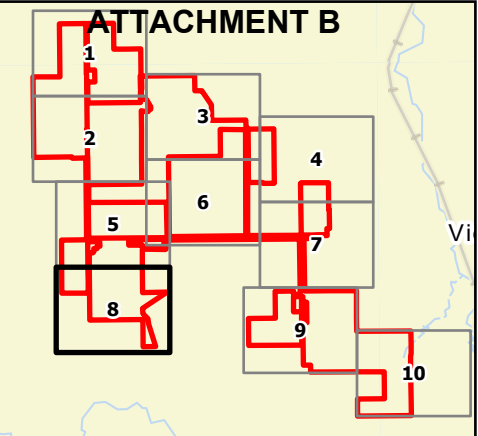
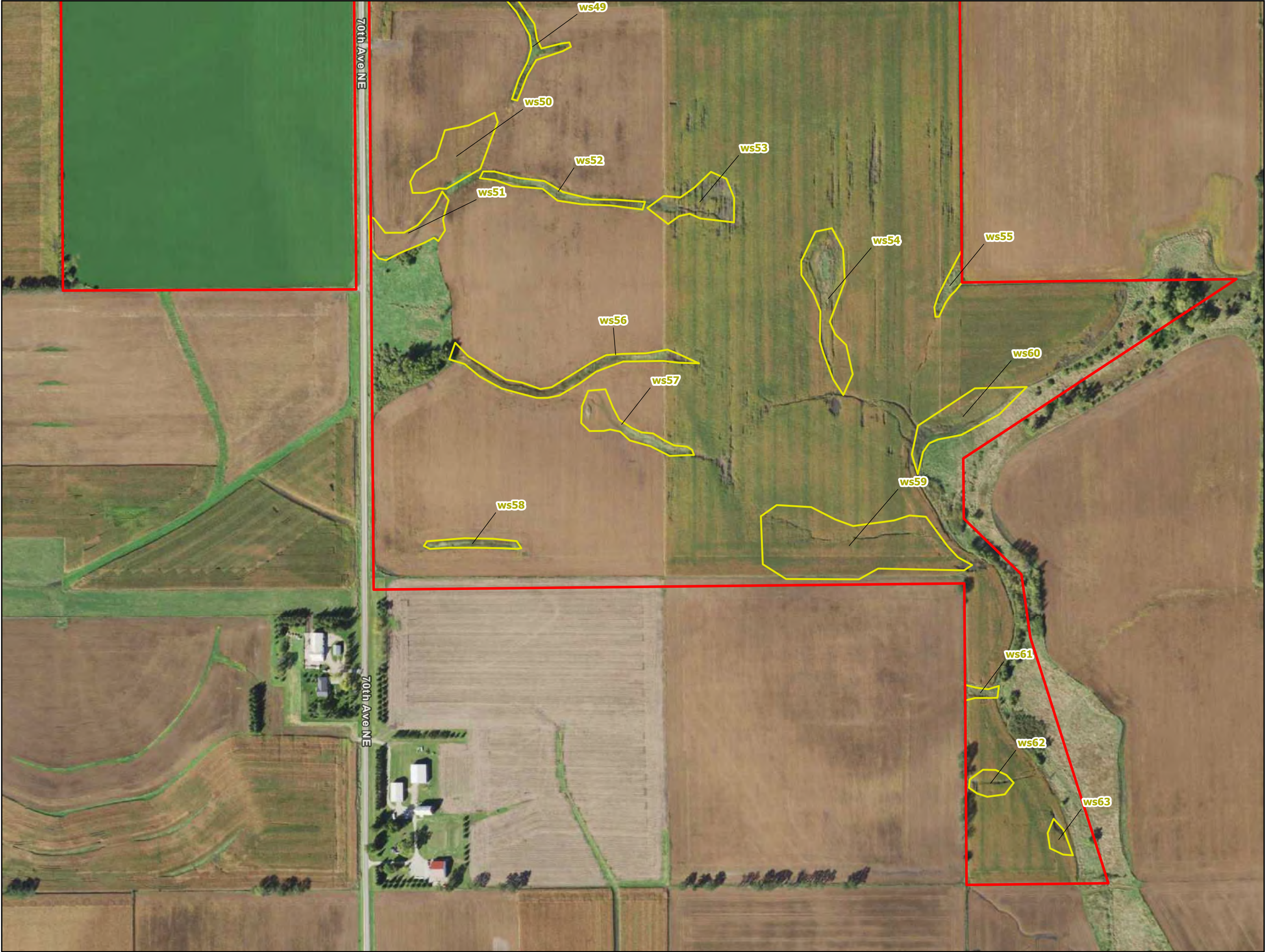




- Survey Area
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**FSA Slide Review: NAIP Imagery -
October 2015
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

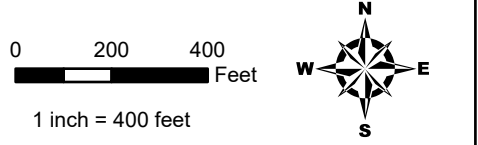
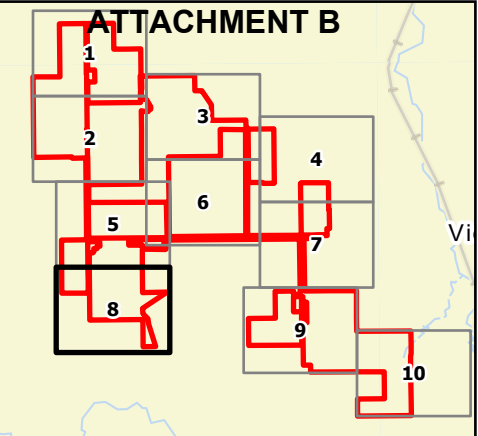




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October 2017
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

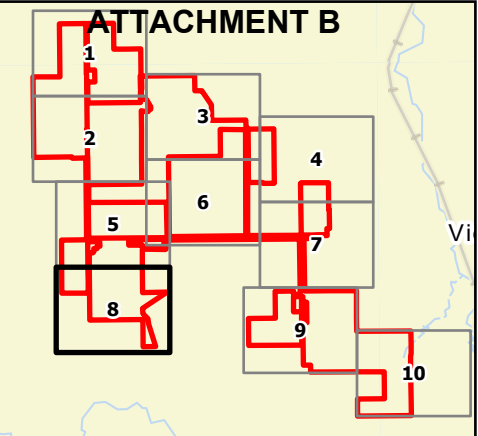
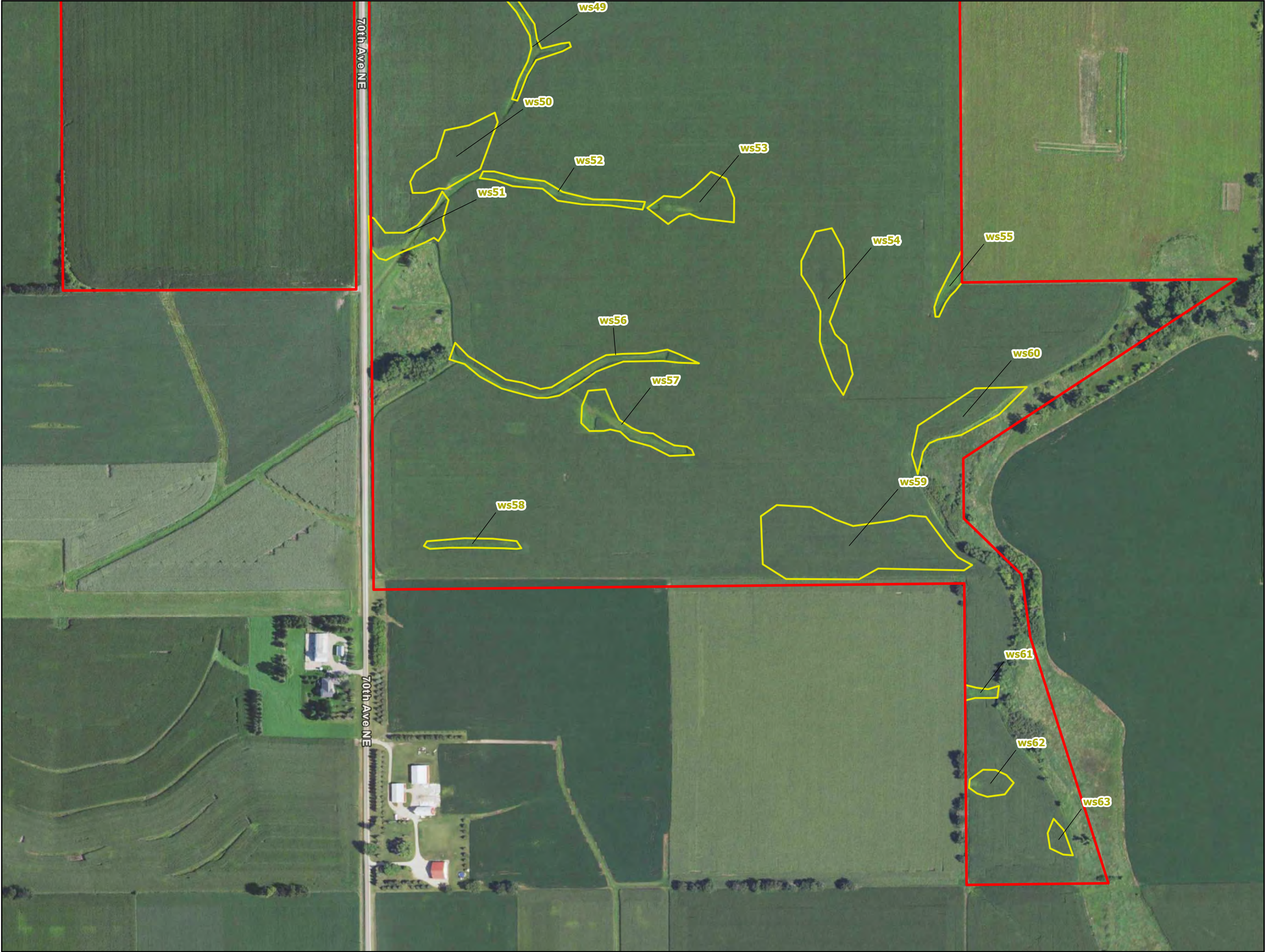




- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
August 2019
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**





- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
August 2021
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**



Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): 107N, R13W, S23 & 24**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws049	Area: ws050	Area: ws051	Area: ws052	Area: ws053
8/15/2021	FSA/NAIP	Normal	CS	NV	CS	CS	CS
8/20/2019	FSA/NAIP	Normal	CS	CS	CS	CS	CS
10/4/2017	FSA/NAIP	Normal	WS	NV	NV	WS	CS, DO
10/14/2015	FSA/NAIP	Normal	WS	CS	CS	WS	CS
7/5/2013	FSA/NAIP	Wet	WS	WS, AP	CS, WS	WS	CS, WS
7/1/2010	FSA/NAIP	Normal	CS	WS, AP	CS, WS	NV	DO, CS
8/22/2009	FSA/NAIP	Normal	WS	CS	NV	CS	CS
Normal Climate Condition			Area: ws049	Area: ws050	Area: ws051	Area: ws052	Area: ws053
Number			6	6	6	6	6
Number with wet signatures			6	4	4	5	6
Percent with wet signatures			100.0%	66.7%	66.7%	83.3%	100.0%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

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- If less than five (5) images taken during normal climate conditions are available, use an equal number of images taken during wet and dry climate conditions and use as many images as you have available. Describe the results using this methodology in your report.

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Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): 107N, R13W, S23 & 24**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws054	Area: ws055	Area: ws056	Area: ws057	Area: ws058
8/15/2021	FSA/NAIP	Normal	NV	CS	CS	CS	NV
8/20/2019	FSA/NAIP	Normal	CS	CS	CS	CS	CS
10/4/2017	FSA/NAIP	Normal	CS, DO, WS	WS	WS	CS, DO, WS	WS
10/14/2015	FSA/NAIP	Normal	CS, AP	WS	WS	WS	WS
7/5/2013	FSA/NAIP	Wet	CS, WS	CS, WS	WS	CS, WS	WS
7/1/2010	FSA/NAIP	Normal	CS, AP	CS	NV	CS, WS	CS, WS
8/22/2009	FSA/NAIP	Normal	CS	CS	CS	CS, WS	CS
Normal Climate Condition			Area: ws054	Area: ws055	Area: ws056	Area: ws057	Area: ws058
Number			6	6	6	6	6
Number with wet signatures			6	6	5	6	5
Percent with wet signatures			100.0%	100.0%	83.3%	100.0%	83.3%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
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Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): 107N, R13W, S23 & 24**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws059	Area: ws060	Area: ws061	Area: ws062	Area: ws063
8/15/2021	FSA/NAIP	Normal	NV	NV	CS	NV	NV
8/20/2019	FSA/NAIP	Normal	NV	NV	CS	CS	NV
10/4/2017	FSA/NAIP	Normal	NV	DO	WS	NV	AP
10/14/2015	FSA/NAIP	Normal	NV	NV	WS	NV	NV
7/5/2013	FSA/NAIP	Wet	CS	WS, CS	WS	SS	SS
7/1/2010	FSA/NAIP	Normal	NV	AP	CS	NV	NV
8/22/2009	FSA/NAIP	Normal	NV	AP	CS	NV	NV
Normal Climate Condition			Area: ws059	Area: ws060	Area: ws061	Area: ws062	Area: ws063
Number			6	6	6	6	6
Number with wet signatures			0	3	6	1	1
Percent with wet signatures			0.0%	50.0%	100.0%	16.7%	16.7%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
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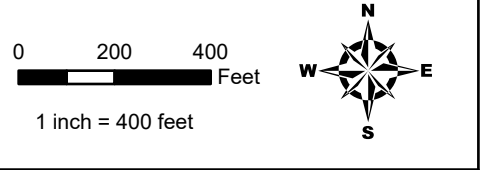
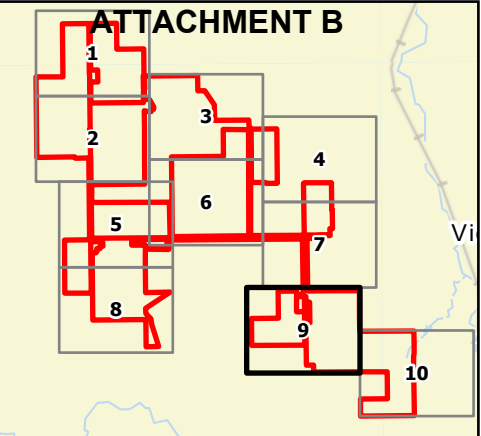
Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): 107N, R13W, S23 & 24**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws059	Area: ws060	Area: ws061	Area: ws062	Area: ws063
8/15/2021	FSA/NAIP	Normal	NV	NV	CS	NV	NV
8/20/2019	FSA/NAIP	Normal	NV	NV	CS	CS	NV
10/4/2017	FSA/NAIP	Normal	NV	DO	WS	NV	AP
10/14/2015	FSA/NAIP	Normal	NV	NV	WS	NV	NV
7/5/2013	FSA/NAIP	Wet	CS	WS, CS	WS	SS	SS
7/1/2010	FSA/NAIP	Normal	NV	AP	CS	NV	NV
8/22/2009	FSA/NAIP	Normal	NV	AP	CS	NV	NV
Normal Climate Condition			Area: ws059	Area: ws060	Area: ws061	Area: ws062	Area: ws063
Number			6	6	6	6	6
Number with wet signatures			0	3	6	1	1
Percent with wet signatures			0.0%	50.0%	100.0%	16.7%	16.7%

KEY		
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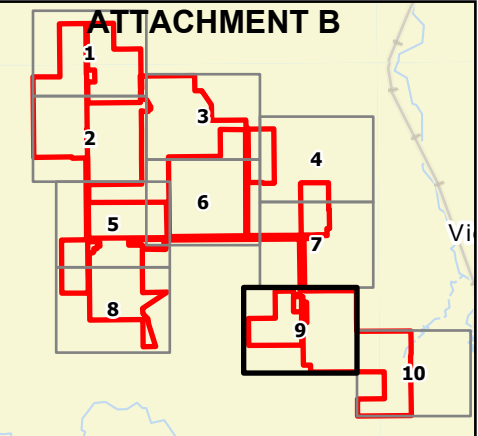


- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
August 2009
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**



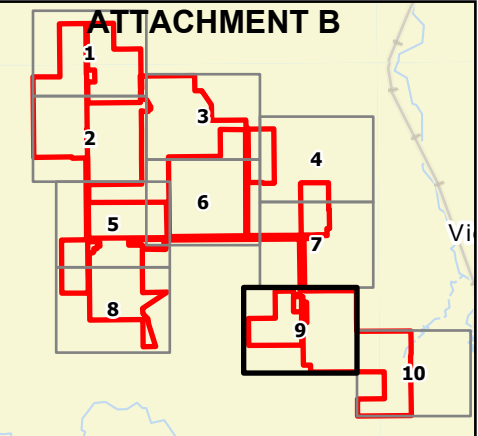
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Date: (6/10/2025)



- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
July 2010
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

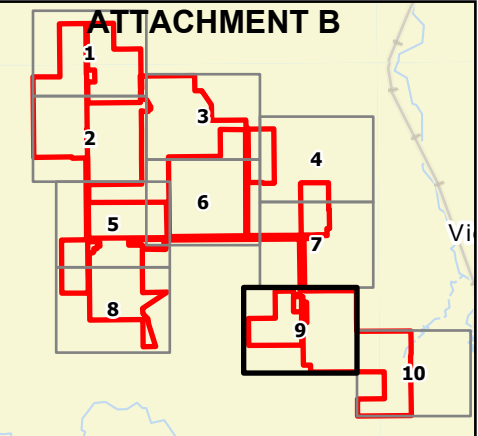




- Survey Area
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**FSA Slide Review: NAIP Imagery -
July 2013
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

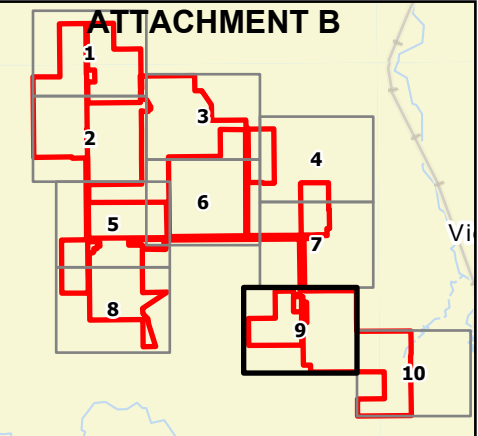
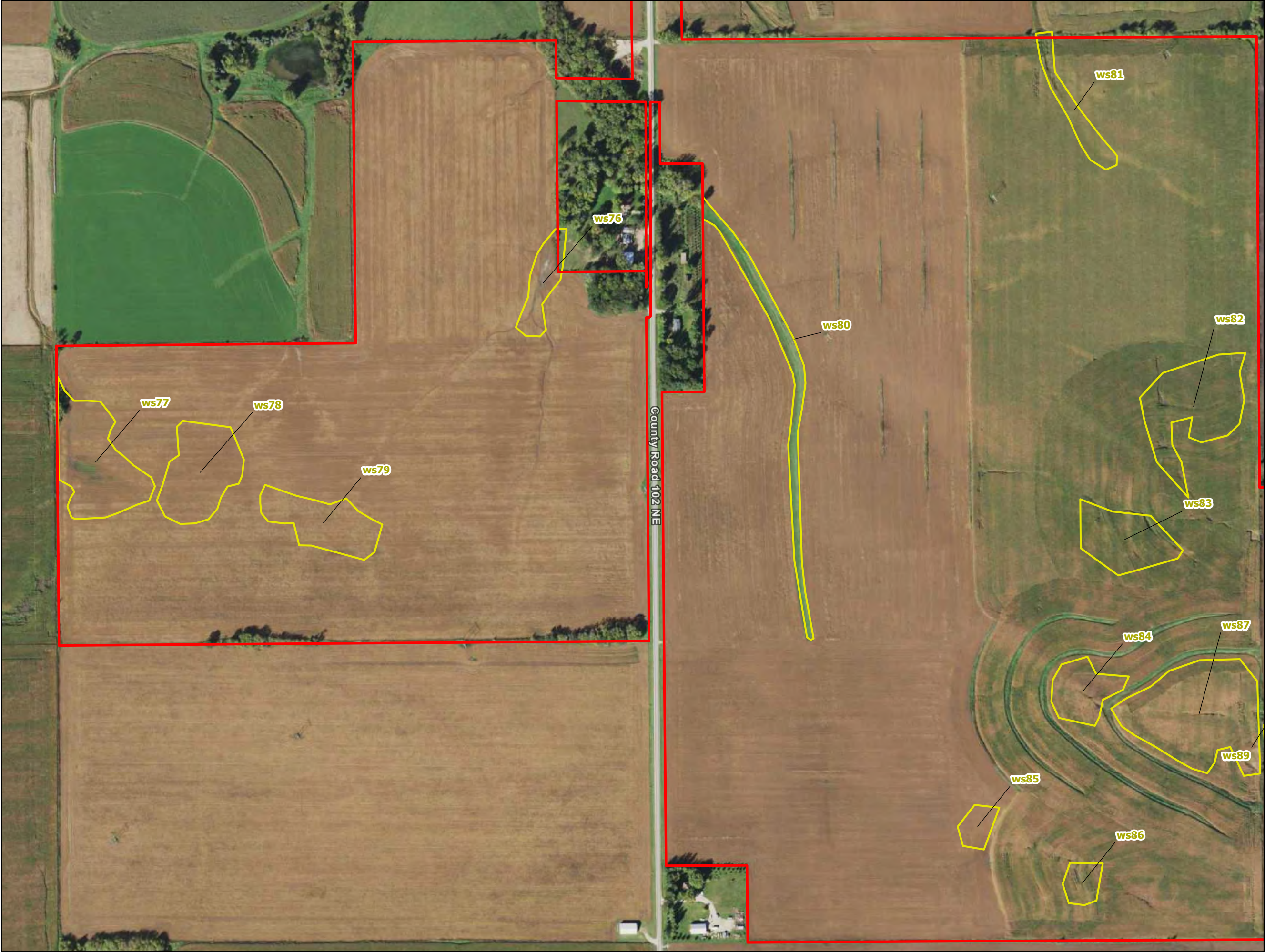




- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
October 2015
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**

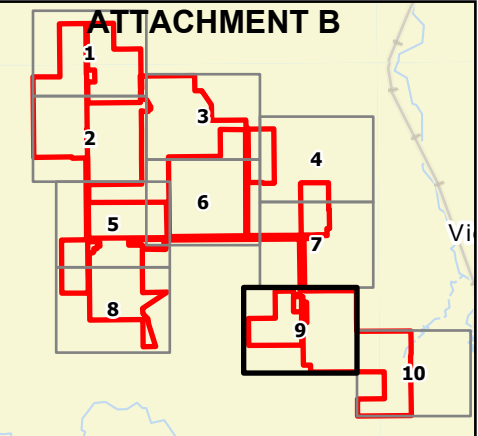




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**FSA Slide Review: NAIP Imagery -
October 2017
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**



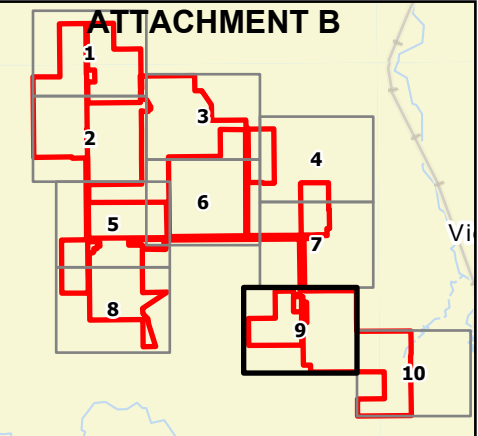


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**FSA Slide Review: NAIP Imagery -
August 2019
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**



Source: Z:\Clients\Q_1\Ranger_Power\Lemon_Hill_Solar\ArcGIS\Biological\001_ArcPro\DesktopReview_2025\LH_DesktopReview_2025.aprx Date: (6/10/2025)



- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
August 2021
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**



Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): 107N, R12W, S19 & 20**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws076	Area: ws077	Area: ws078	Area: ws079	Area: ws080
8/15/2021	FSA/NAIP	Normal	NV	NV	NV	NV	WS
8/20/2019	FSA/NAIP	Normal	WS	WS, CS	CS	NV	WS
10/4/2017	FSA/NAIP	Normal	CS	WS, DO	NV	NV	WS
10/14/2015	FSA/NAIP	Normal	CS	CS	NV	NV	WS
7/5/2013	FSA/NAIP	Wet	AP	CS, SS, AP	CS, AP	CS, AP	WS
7/1/2010	FSA/NAIP	Normal	CS	NV	NV	NV	WS
8/22/2009	FSA/NAIP	Normal	NV	NV	NV	NV	WS
Normal Climate Condition			Area: ws076	Area: ws077	Area: ws078	Area: ws079	Area: ws080
Number			6	6	6	6	6
Number with wet signatures			4	3	1	0	6
Percent with wet signatures			66.7%	50.0%	16.7%	0.0%	100.0%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

- Use above key to label image interpretations. It is imperative that the reviewer read and understand the guidance associated with the use of these labels. If alternate labels are used, indicate in box above.
- If less than five (5) images taken during normal climate conditions are available, use an equal number of images taken during wet and dry climate conditions and use as many images as you have available. Describe the results using this methodology in your report.

Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): 107N, R12W, S20 & 29**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws081	Area: ws082	Area: ws083	Area: ws084	Area: ws085
8/15/2021	FSA/NAIP	Normal	NV	NV	NV	NV	NV
8/20/2019	FSA/NAIP	Normal	NV	NV	NV	NV	NV
10/4/2017	FSA/NAIP	Normal	NV	NV	NV	NV	NV
10/14/2015	FSA/NAIP	Normal	NV	NV	NV	NV	NV
7/5/2013	FSA/NAIP	Wet	WS	CS, WS	CS, SS	CS, WS	CS, WS
7/1/2010	FSA/NAIP	Normal	NV	NV	NV	NV	CS
8/22/2009	FSA/NAIP	Normal	NV	NV	NV	NV	NV
Normal Climate Condition			Area: ws081	Area: ws082	Area: ws083	Area: ws084	Area: ws085
Number			6	6	6	6	6
Number with wet signatures			0	0	0	0	1
Percent with wet signatures			0.0%	0.0%	0.0%	0.0%	16.7%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

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- If less than five (5) images taken during normal climate conditions are available, use an equal number of images taken during wet and dry climate conditions and use as many images as you have available. Describe the results using this methodology in your report.

Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

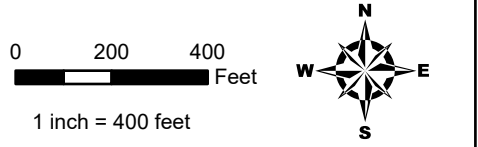
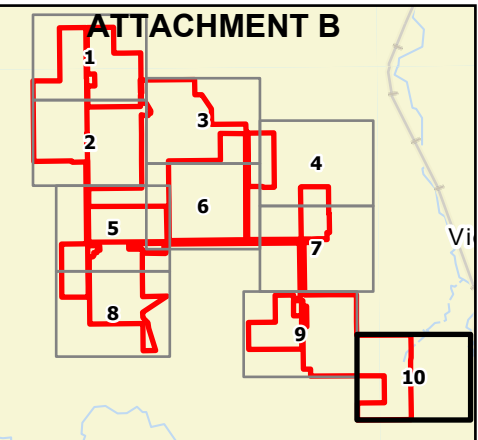
Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): 107N, R12W, S29**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws086	Area: ws087			
8/15/2021	FSA/NAIP	Normal	NV	NV			
8/20/2019	FSA/NAIP	Normal	WS	WS			
10/4/2017	FSA/NAIP	Normal	NV	NV			
10/14/2015	FSA/NAIP	Normal	NV	NV			
7/5/2013	FSA/NAIP	Wet	CS, WS	CS, SS, WS,			
7/1/2010	FSA/NAIP	Normal	NV	NV			
8/22/2009	FSA/NAIP	Normal	NV	NV			
Normal Climate Condition			Area: ws086	Area: ws087			
Number			6	6			
Number with wet signatures			1	1			
Percent with wet signatures			16.7%	16.7%			

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

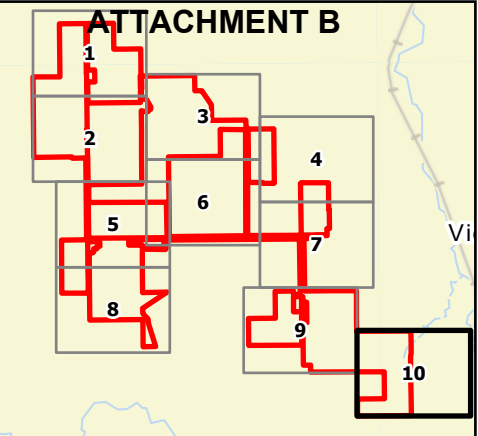
- Use above key to label image interpretations. It is imperative that the reviewer read and understand the guidance associated with the use of these labels. If alternate labels are used, indicate in box above.
- If less than five (5) images taken during normal climate conditions are available, use an equal number of images taken during wet and dry climate conditions and use as many images as you have available. Describe the results using this methodology in your report.



- Survey Area
- Wetness Signature

FSA Slide Review: NAIP Imagery -
August 2009
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN

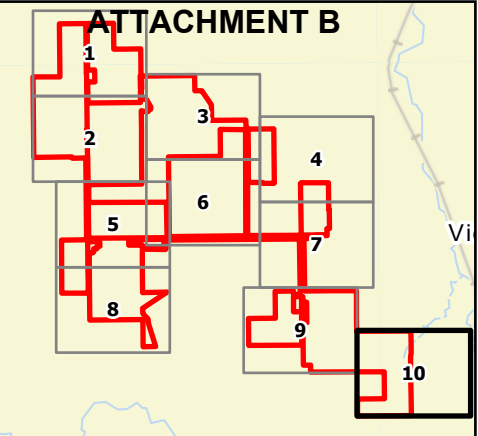




- Survey Area
- Wetness Signature

FSA Slide Review: NAIP Imagery -
July 2010
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN

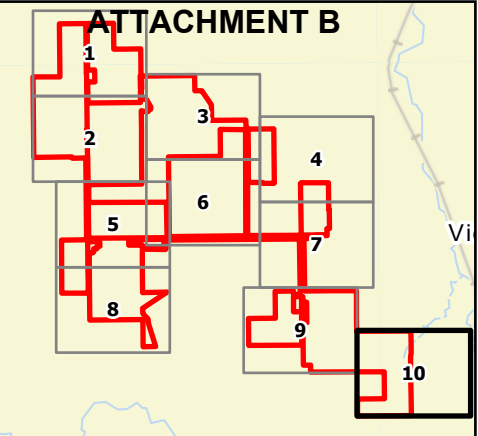




- Survey Area
- Wetness Signature

FSA Slide Review: NAIP Imagery -
July 2013
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN



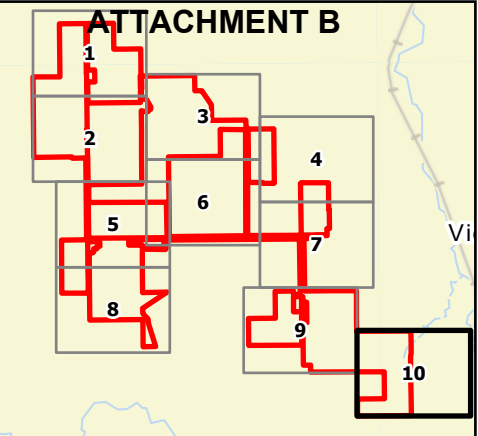


- Survey Area
- Wetness Signature

**FSA Slide Review: NAIP Imagery -
October 2015
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN**



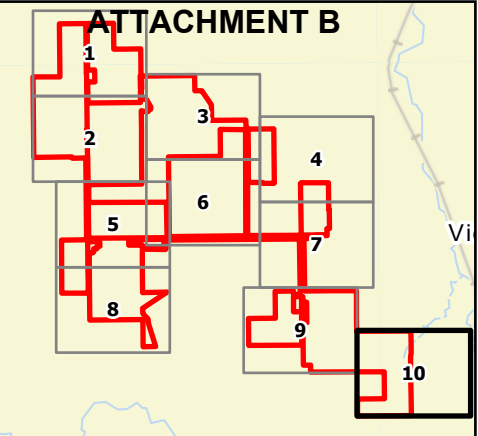
Source: (b) (6) 10/2025) Z:\Clients\Q_1\Ranger_Power\Lemon_Hill_Solar\ArcGIS\Biology\001_ArcPro\DesktopReview_2025\LH_DesktopReview_2025.aprx



- Survey Area
- Wetness Signature

FSA Slide Review: NAIP Imagery -
October 2017
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN

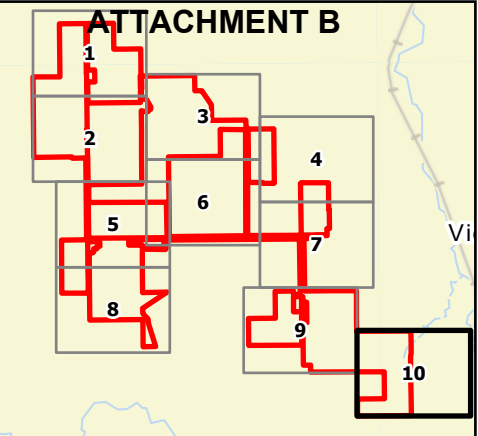




- Survey Area
- Wetness Signature

FSA Slide Review: NAIP Imagery -
August 2019
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN





- Survey Area
- Wetness Signature

FSA Slide Review: NAIP Imagery -
August 2021
Lemon Hill Solar Project
Ranger Power
Olmsted County, MN



Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): 107N, R12W, S20 & 29**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws88	Area: ws89	Area: ws90	Area: ws91	Area: ws92
8/15/2021	FSA/NAIP	Normal	NV	NV	NV	NV	WS, NC
8/20/2019	FSA/NAIP	Normal	WS	SS	NV	NV	WS, AP, NC
10/4/2017	FSA/NAIP	Normal	AP, WS	NV	NV	NV	WS, AP, NC
10/14/2015	FSA/NAIP	Normal	NV	NV	NV	NV	WS, NC
7/5/2013	FSA/NAIP	Wet	CS, SS, WS	CS, SS	CS, SS	CS, SS	WS, NC, SS
7/1/2010	FSA/NAIP	Normal	NV	CS, SS	NV	NV	CS, WS, DO
8/22/2009	FSA/NAIP	Normal	NV	NV	NV	NV	AP, WS
Normal Climate Condition			Area: ws88	Area: ws89	Area: ws90	Area: ws91	Area: ws92
Number			6	6	6	6	6
Number with wet signatures			2	2	0	0	6
Percent with wet signatures			33.3%	33.3%	0.0%	0.0%	100.0%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments:		TC - Thriving crop during dry conditions

- Use above key to label image interpretations. It is imperative that the reviewer read and understand the guidance associated with the use of these labels. If alternate labels are used, indicate in box above.
- If less than five (5) images taken during normal climate conditions are available, use an equal number of images taken during wet and dry climate conditions and use as many images as you have available. Describe the results using this methodology in your report.

Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): 107N, R12W, S20**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws093	Area: ws094	Area: ws95	Area: ws096	Area: ws097
8/15/2021	FSA/NAIP	Normal	NV	NV	NV	NV	NV
8/20/2019	FSA/NAIP	Normal	NV	NV	NV	NV	NV
10/4/2017	FSA/NAIP	Normal	NV	NV	NV	NV	NV
10/14/2015	FSA/NAIP	Normal	NV	NV	NV	SS	NV
7/5/2013	FSA/NAIP	Wet	CS, SS	CS, SS	WS, CS, SS	CS, SS	CS
7/1/2010	FSA/NAIP	Normal	NV	NV	CS	NV	NV
8/22/2009	FSA/NAIP	Normal	NV	NV	NV	NV	NV
Normal Climate Condition			Area: ws093	Area: ws094	Area: ws095	Area: ws096	Area: ws097
Number			6	6	6	6	6
Number with wet signatures			0	0	1	1	0
Percent with wet signatures			0.0%	0.0%	16.7%	16.7%	0.0%

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

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- If less than five (5) images taken during normal climate conditions are available, use an equal number of images taken during wet and dry climate conditions and use as many images as you have available. Describe the results using this methodology in your report.

Exhibit 1Field data sheet reference (if applicable): See attached crosswalk table**Wetland Hydrology from Aerial Imagery – Recording Form**

Project Name: Lemon Hill Solar Project

Date: 5/20/24 County: OlmsteadInvestigator: Kyle Hanson Legal Description (T, R, S): 107N, R12W, S29**Summary Table**

Date Image Taken (M-D-Y)	Image Source	Climate Condition (wet, dry, normal) ⁱ	Image Interpretation(s)				
			Area: ws098	Area: ws099	Area: ws100		
8/15/2021	FSA/NAIP	Normal	NV	NV	NC		
8/20/2019	FSA/NAIP	Normal	NV	NV	NC		
10/4/2017	FSA/NAIP	Normal	NV	NV	NC		
10/14/2015	FSA/NAIP	Normal	NV	NV	NC		
7/5/2013	FSA/NAIP	Wet	CS, SS	CS	N/A		
7/1/2010	FSA/NAIP	Normal	NV	NV	NC		
8/22/2009	FSA/NAIP	Normal	NV	NV	N/A		
Normal Climate Condition			Area: ws098	Area: ws099	Area: ws100		
Number			6	6	5		
Number with wet signatures			0	0	3		
Percent with wet signatures			0.0%	0.0%	60%		

KEY		
WS - wetland signature	SS - soil wetness signature	CS - crop stress
NC - not cropped	AP - altered pattern	NV - normal vegetative cover
DO - drowned out	SW - standing water	NSS - no soil wetness signature
Other labels or comments: TC - Thriving crop during dry conditions		

- Use above key to label image interpretations. It is imperative that the reviewer read and understand the guidance associated with the use of these labels. If alternate labels are used, indicate in box above.
- If less than five (5) images taken during normal climate conditions are available, use an equal number of images taken during wet and dry climate conditions and use as many images as you have available. Describe the results using this methodology in your report.

Exhibit 2 Field data sheet reference (if applicable): See attached crosswalk table

Wetland Determination from Aerial Imagery – Recording Form

Project Name: Lemon Hill Solar Project Date: 5/20/24, 04/29/2025 County: Olmstead, MN

Investigator: Kyle Hanson, Tim Flood

Legal Description (T, R, S): 107N , 12W, 13W , S11, S12, S13, S14, S23, S24; S7, S17, S18, S19, S20, S29

Use the Decision Matrix below to complete Table 1.

Hydric Soils present ¹	Identified on NWI or other wetland map ²	Percent with wet signatures from Exhibit 1	Field verification required ³	Wetland?
Yes	Yes	>50%	No	Yes
Yes	Yes	30-50%	No	Yes
Yes	Yes	<30%	Yes	Yes, if other hydrology indicators present
Yes	No	>50%	No	Yes
Yes	No	30-50%	Yes	Yes, if other hydrology indicators present
Yes	No	<30%	No	No
No	Yes	>50%	No	Yes
No	Yes	30-50%	No	Yes
No	Yes	<30%	No	No
No	No	>50%	Yes	Yes, if other hydrology indicators present
No	No	30-50%	Yes	Yes, if other hydrology indicators present
No	No	<30%	No	No

¹ The presence of hydric soils can be determined from the “Hydric Rating by Map Unit Feature” under “Land Classifications” from the Web Soil Survey. “Not Hydric” is the only category considered to not have hydric soils. Field sampling for the presence/absence of hydric soil indicators can be used in lieu of the hydric rating if appropriately documented by providing completed field data sheets.

² At minimum, the most updated NWI data available for the area must be reviewed for this step. Any and all other local or regional wetland maps that are publically available should be reviewed.

³ Area should be reviewed in the field for the presence/absence of wetland hydrology indicators per the applicable 87 Manual Regional Supplement, including the D2 indicator (geomorphic position).

Table 1.

Area	Hydric Soils Present	Identified on NWI or other wetland map	Percent with wet signatures from Exhibit 1	Other hydrology indicators present ¹	Wetland
ws001	partial	partial	83.3%	No	No
ws002	no	no	16.7%	n/a	No
ws003	no	no	0.0%	n/a	No
ws004	no	no	50.0%	No	No
ws005	no	no	66.7%	No	No
ws006	no	no	33.3%	No	No
ws007	no	no	50.0%	No	No

ATTACHMENT B

Area	Hydric Soils Present	Identified on NWI or other wetland map	Percent with wet signatures from Exhibit 1	Other hydrology indicators present ¹	Wetland
ws008	no	no	50.0%	No	No
ws009	no	no	50.0%	No	No
ws010	no	no	50.0%	No	No
ws011	no	no	66.7%	No	No
ws012	no	no	100.0%	No	No
ws013	no	no	83.3%	No	No
ws014	no	no	16.7%	No	No
ws015	no	no	33.3%	No	No
ws016	no	no	50.0%	No	No
ws017	no	no	50.0%	Yes	Yes – w14
ws018	no	no	50.0%	No	No
ws019	no	no	100.0%	No	No
ws020	no	no	50.0%	No	No
ws021	no	no	16.7%	n/a	No
ws022	no	no	83.3%	No	No
ws023	yes	no	0.0%	n/a	No
ws024	no	no	83.3%	No	No
ws025	no	no	16.7%	n/a	No
ws026	yes	no	50.0%	Yes	Yes – w08
ws027	no	no	16.7%	n/a	No
ws028	partial	no	33.3%	Yes	Yes – w10
ws029	no	no	33.3%	No	No
ws030	no	no	33.3%	Yes	Yes – w12
ws031	no	no	0.0%	n/a	No
ws032	no	no	16.7%	n/a	No
ws033	no	no	100.0%	No	No
ws034	no	no	83.3%	No	No
ws035	no	no	100.0%	No	No
ws036	partial	no	33.3%	No	No
ws037	no	no	100.0%	No	No
ws038	no	no	100.0%	No	No
ws039	no	no	100.0%	No	No
ws040	no	no	100.0%	No	No
ws041	no	no	16.7%	No	No
ws042	no	no	100.0%	No	No
ws043	no	no	66.7%	No	No
ws044	no	no	33.3%	No	No
ws045	no	no	50.0%	No	No
ws046	no	no	16.7%	n/a	No
ws047	no	no	16.7%	n/a	No

ATTACHMENT B

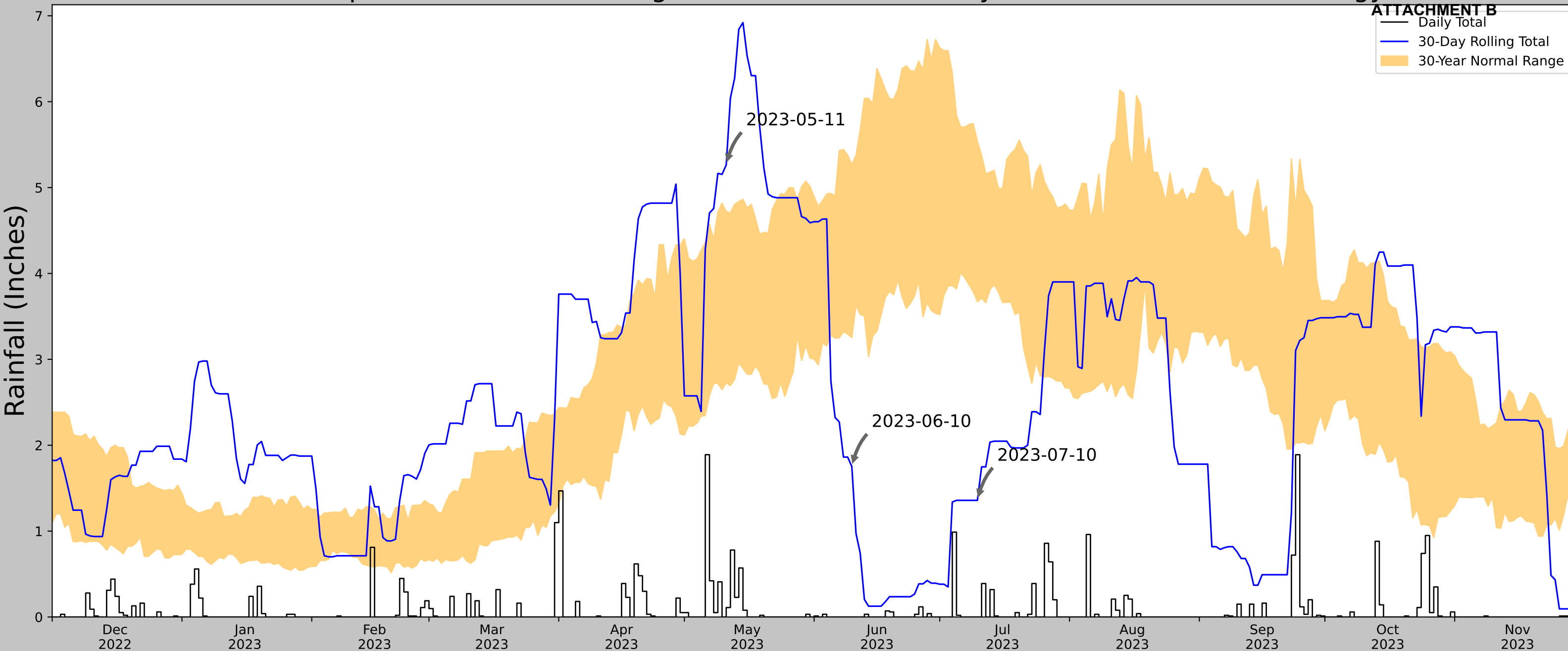
Area	Hydric Soils Present	Identified on NWI or other wetland map	Percent with wet signatures from Exhibit 1	Other hydrology indicators present¹	Wetland
ws048	no	no	0.0%	n/a	No
ws049	yes	no	100.0%	Yes	Yes – w30
ws050	yes	no	66.7%	No	No
ws051	yes	no	66.7%	No	No
ws052	yes	no	83.3%	No	No
ws053	yes	no	100.0%	No	No
ws054	yes	no	100.0%	Yes	Yes – w27
ws055	yes	no	100.0%	No	No
ws056	yes	no	83.3%	No	No
ws057	yes	no	100.0%	No	No
ws058	yes	no	83.3%	No	No
ws059	yes	no	0.0%	n/a	No
ws060	yes	yes	50.0%	Yes	Yes – w26
ws061	yes	no	100.0%	No	No
ws062	partial	no	16.7%	n/a	No
ws063	yes	no	16.7%	n/a	No
ws064	no	no	16.7%	No	No
ws065	yes	yes	66.7%	Yes	Yes – w17
ws066	no	no	33.3%	No	No
ws067	yes	no	50.0%	yes	Yes – w18
ws068	no	no	0.0%	n/a	Yes – w18
ws069	no	no	0.0%	n/a	Yes – w18
ws070	no	no	33.3%	No	No
ws071	no	no	33.3%	No	No
ws072	no	no	33.3%	No	No
ws073	no	no	83.3%	No	No
ws074	yes	no	83.3%	No	No
ws075	yes	no	100.0%	No	No
ws076	no	no	66.7%	No	No
ws077	no	no	50.0%	No	No
ws078	no	no	16.7%	n/a	No
ws079	no	no	0.0%	n/a	No
ws080	partial	no	100.0%	No	No
ws081	yes	no	0.0%	n/a	No
ws082	partial	no	0.0%	n/a	No
ws083	no	no	0.0%	n/a	No
ws084	partial	no	0.0%	n/a	No
ws085	no	no	16.7%	n/a	No
ws086	no	no	16.7%	n/a	No
ws087	partial	no	16.7%	n/a	No

ATTACHMENT B

Area	Hydric Soils Present	Identified on NWI or other wetland map	Percent with wet signatures from Exhibit 1	Other hydrology indicators present ¹	Wetland
ws088	yes	no	33.3%	No	No
ws089	partial	no	33.3%	No	No
ws090	no	no	0.0%	n/a	No
ws091	yes	no	0.0%	n/a	No
ws092	partial	no	100.0%	Yes	Yes – w21
ws093	no	no	0.0%	n/a	No
ws094	partial	no	0.0%	n/a	No
ws095	partial	no	16.7%	n/a	No
ws096	no	no	16.7%	n/a	No
ws097	no	no	0.0%	n/a	No
ws098	no	no	0.0%	n/a	No
ws099	no	no	0.0%	n/a	No
ws100	no	yes	100	Yes	Yes – w37
ws101	yes	yes	100	Yes	Yes – w35
ws102	no	no	60	Yes	Yes – w36

¹ Answer "N/A" if field verification is not required and was not conducted.

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	44.0695075, -92.3140347
Observation Date	2023-07-10
Elevation (ft)	1250.31
Drought Index (PDSI)	Mild drought
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2023-07-10	3.670866	5.536614	1.358268	Dry	1	3	3
2023-06-10	3.252756	5.268898	1.751969	Dry	1	2	2
2023-05-11	2.727165	4.720473	5.26378	Wet	3	1	3

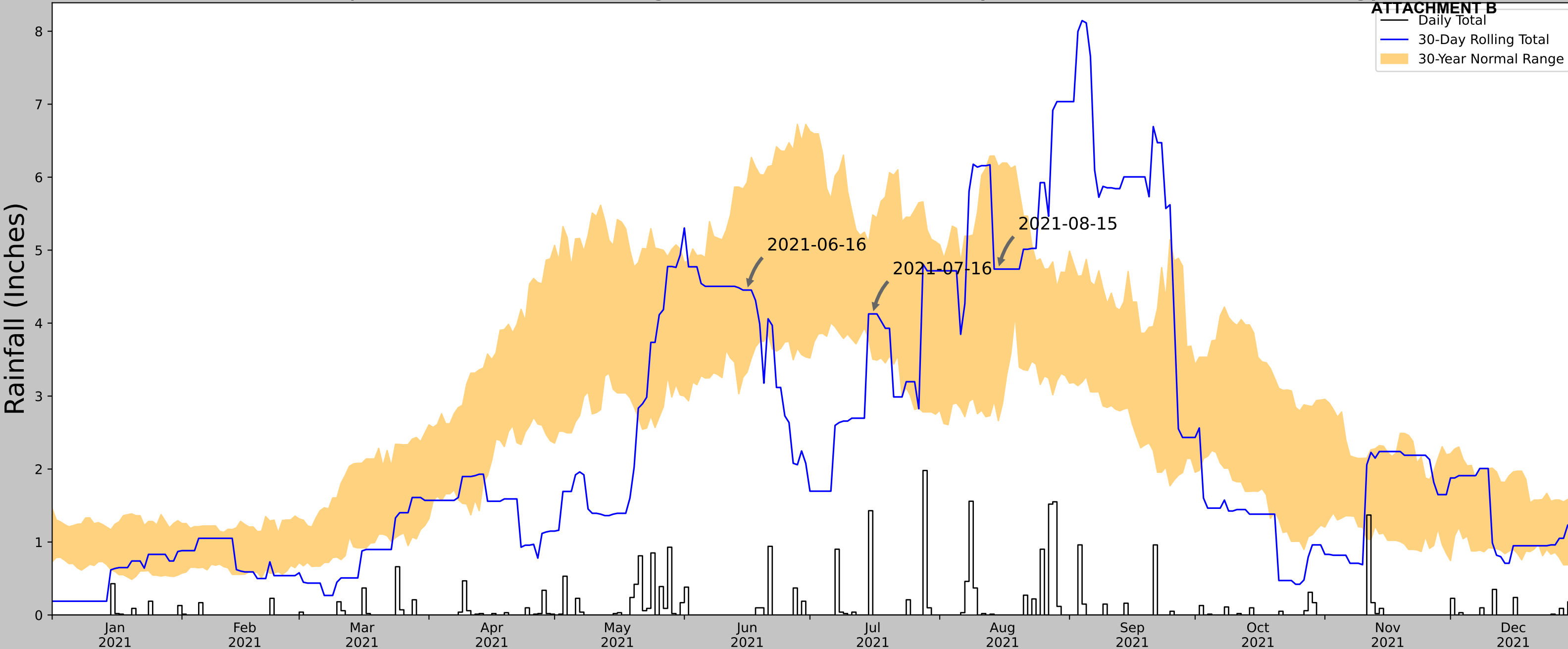
Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ELGIN 2SSW	44.0969, -92.2703	1109.908	2.88	140.402	1.7	11127	90
ELGIN 0.4 WNW	44.1285, -92.2557	1081.037	2.3	28.871	1.101	1	0
ROCHESTER 5.8 ENE	44.0458, -92.3703	1225.066	6.092	115.158	3.443	48	0
ROCHESTER 4.1 ENE	44.0422, -92.4047	1191.929	7.668	82.021	4.08	28	0
ROCHESTER 5.1 E	44.0019, -92.3783	1062.992	8.476	46.916	4.212	1	0
ROCHESTER 3.6 NE	44.0569, -92.4348	1217.848	8.62	107.94	4.809	7	0
ELBA 4.7 SW	44.0415, -92.0882	1040.026	9.817	69.882	5.104	1	0
ROCHESTER 3.9 ESE	43.9929, -92.4074	1032.152	9.899	77.756	5.224	17	0
ZUMBRO FALLS 3.5 SSW	44.2389, -92.4551	1105.971	13.422	3.937	6.093	1	0
ROCHESTER 2.5 W	44.0116, -92.5293	1154.856	14.147	44.948	7.002	4	0
ALTURA 5W	44.0633, -92.0397	865.158	11.679	244.75	8.114	25	0
ZUMBRO FALLS 2NE	44.3033, -92.4044	1033.137	15.732	76.771	8.287	29	0
ROCHESTER AP 2NE	43.9336, -92.4728	1233.924	15.118	124.016	8.678	33	0
BYRON 4NORTH	44.0908, -92.64	1041.011	18.35	68.897	9.522	20	0
THEILMAN 1SSW	44.2811, -92.1944	752.953	13.271	356.955	10.709	10	0



Figure and tables made by the
Antecedent Precipitation Tool
Version 1.0

Written by Jason Deters
U.S. Army Corps of Engineers

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	44.0695075, -92.3140347
Observation Date	2021-08-15
Elevation (ft)	1250.31
Drought Index (PDSI)	Mild wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2021-08-15	2.661417	6.146457	4.740158	Normal	2	3	6
2021-07-16	3.504331	5.48189	4.125984	Normal	2	2	4
2021-06-16	3.329134	5.929134	4.452756	Normal	2	1	2

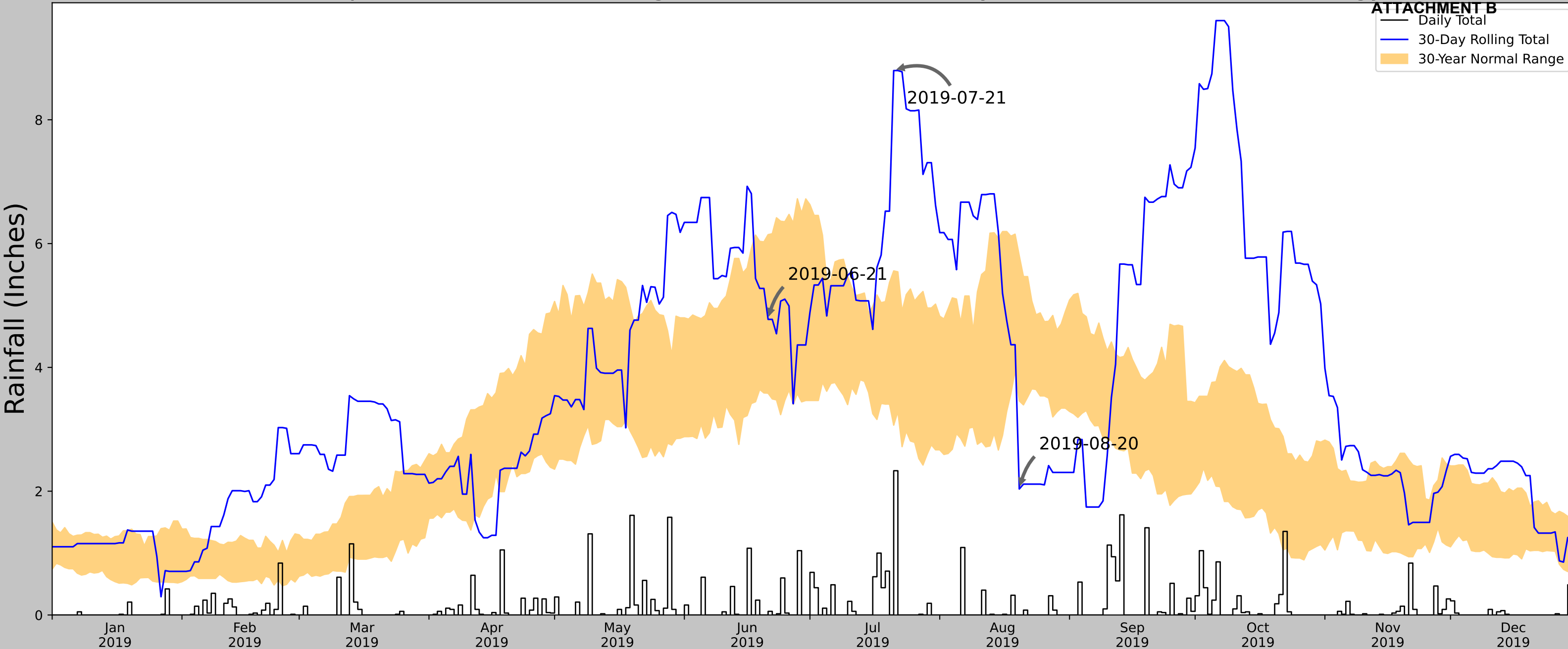
Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ELGIN 2SSW	44.0969, -92.2703	1109.908	2.88	140.402	1.7	11128	90
ROCHESTER 5.8 ENE	44.0458, -92.3703	1225.066	6.092	115.158	3.443	48	0
ROCHESTER 4.1 ENE	44.0422, -92.4047	1191.929	7.668	82.021	4.08	28	0
ROCHESTER 5.1 E	44.0019, -92.3783	1062.992	8.476	46.916	4.212	1	0
ROCHESTER 3.6 NE	44.0569, -92.4348	1217.848	8.62	107.94	4.809	7	0
ELBA 4.7 SW	44.0415, -92.0882	1040.026	9.817	69.882	5.104	1	0
ROCHESTER 3.9 ESE	43.9929, -92.4074	1032.152	9.899	77.756	5.224	17	0
ZUMBRO FALLS 3.5 SSW	44.2389, -92.4551	1105.971	13.422	3.937	6.093	1	0
ROCHESTER 2.5 W	44.0116, -92.5293	1154.856	14.147	44.948	7.002	4	0
ALTURA 5W	44.0633, -92.0397	865.158	11.679	244.75	8.114	25	0
ZUMBRO FALLS 2NE	44.3033, -92.4044	1033.137	15.732	76.771	8.287	29	0
ROCHESTER AP 2NE	43.9336, -92.4728	1233.924	15.118	124.016	8.678	33	0
BYRON 4NORTH	44.0908, -92.64	1041.011	18.35	68.897	9.522	20	0
THEILMAN 1SSW	44.2811, -92.1944	752.953	13.271	356.955	10.709	10	0
ROCHESTER INTL AP	43.9929, -92.4074	1232.123	13.285	126.184	11.176	1	0



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Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	44.0695075, -92.3140347
Observation Date	2019-08-20
Elevation (ft)	1250.31
Drought Index (PDSI)	Extreme wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2019-08-20	3.457874	5.80315	2.035433	Dry	1	3	3
2019-07-21	3.065748	5.559055	8.795276	Wet	3	2	6
2019-06-21	3.582677	6.144882	4.775591	Normal	2	1	2

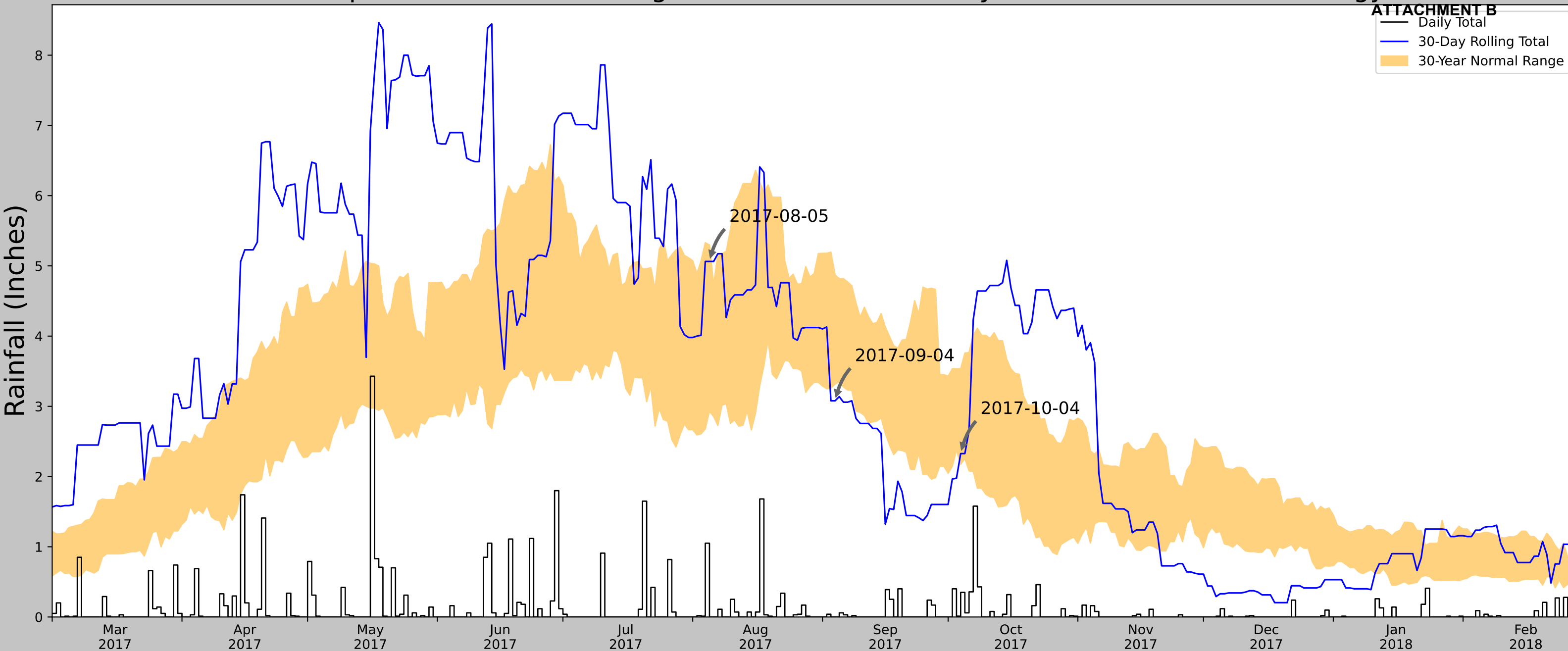
Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ELGIN 2SSW	44.0969, -92.2703	1109.908	2.88	140.402	1.7	11088	90
ROCHESTER 5.8 ENE	44.0458, -92.3703	1225.066	6.092	115.158	3.443	33	0
ROCHESTER 4.1 ENE	44.0422, -92.4047	1191.929	7.668	82.021	4.08	28	0
ROCHESTER 5.1 E	44.0019, -92.3783	1062.992	8.476	46.916	4.212	1	0
ROCHESTER 3.6 NE	44.0569, -92.4348	1217.848	8.62	107.94	4.809	7	0
ELBA 4.7 SW	44.0415, -92.0882	1040.026	9.817	69.882	5.104	1	0
ROCHESTER 3.9 ESE	43.9929, -92.4074	1032.152	9.899	77.756	5.224	17	0
ZUMBRO FALLS 3.5 SSW	44.2389, -92.4551	1105.971	13.422	3.937	6.093	1	0
ROCHESTER 2.5 W	44.0116, -92.5293	1154.856	14.147	44.948	7.002	4	0
ALTURA 5W	44.0633, -92.0397	865.158	11.679	244.75	8.114	25	0
ZUMBRO FALLS 2NE	44.3033, -92.4044	1033.137	15.732	76.771	8.287	29	0
ROCHESTER AP 2NE	43.9336, -92.4728	1233.924	15.118	124.016	8.678	33	0
BYRON 4NORTH	44.0908, -92.64	1041.011	18.35	68.897	9.522	20	0
THEILMAN 1SSW	44.2811, -92.1944	752.953	13.271	356.955	10.709	65	0
ROCHESTER INTL AP	43.9929, -92.4074	1233.137	13.285	124.016	11.176	1	0



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Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	44.0695075, -92.3140347
Observation Date	2017-10-04
Elevation (ft)	1250.31
Drought Index (PDSI)	Extreme wetness
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2017-10-04	2.174803	3.533465	2.326772	Normal	2	3	6
2017-09-04	3.316536	4.87126	3.07874	Dry	1	2	2
2017-08-05	2.930709	5.297638	5.062992	Normal	2	1	2

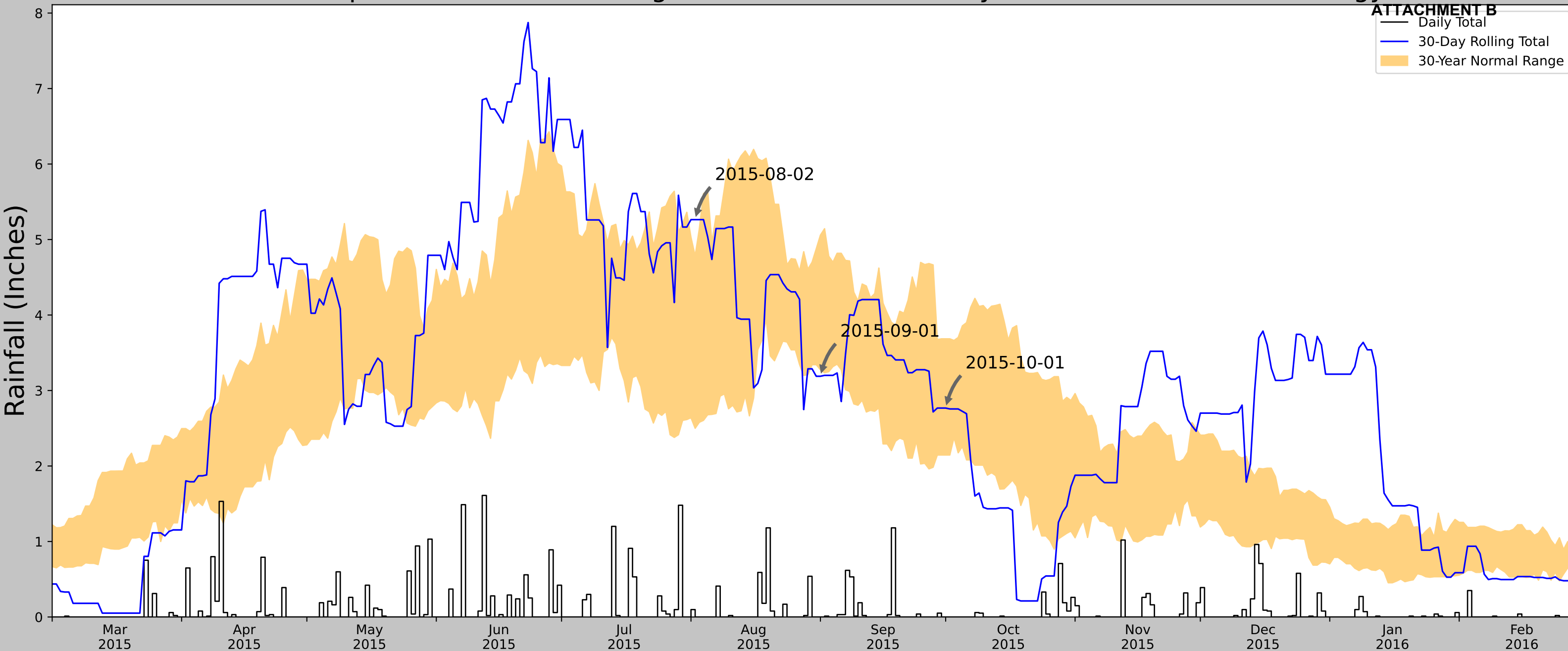
Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ELGIN 2SSW	44.0969, -92.2703	1109.908	2.88	140.402	1.7	11085	76
ROCHESTER 5.8 ENE	44.0458, -92.3703	1225.066	6.092	115.158	3.443	33	4
ROCHESTER 4.1 ENE	44.0422, -92.4047	1191.929	7.668	82.021	4.08	28	10
ROCHESTER 5.1 E	44.0019, -92.3783	1062.992	8.476	46.916	4.212	1	0
ROCHESTER 3.6 NE	44.0569, -92.4348	1217.848	8.62	107.94	4.809	7	0
ELBA 4.7 SW	44.0415, -92.0882	1040.026	9.817	69.882	5.104	1	0
ROCHESTER 3.9 ESE	43.9929, -92.4074	1032.152	9.899	77.756	5.224	17	0
ZUMBRO FALLS 3.5 SSW	44.2389, -92.4551	1105.971	13.422	3.937	6.093	1	0
ROCHESTER 2.5 W	44.0116, -92.5293	1154.856	14.147	44.948	7.002	4	0
ALTURA 5W	44.0633, -92.0397	865.158	11.679	244.75	8.114	25	0
ZUMBRO FALLS 2NE	44.3033, -92.4044	1033.137	15.732	76.771	8.287	29	0
ROCHESTER AP 2NE	43.9336, -92.4728	1233.924	15.118	124.016	8.678	33	0
BYRON 4NORTH	44.0908, -92.64	1041.011	18.35	68.897	9.522	20	0
ZUMBRO FALLS	44.2853, -92.4311	879.921	15.261	229.987	10.377	3	0
THEILMAN 1SSW	44.2811, -92.1944	752.953	13.271	356.955	10.709	65	0



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Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	44.0695075, -92.3140347
Observation Date	2015-10-01
Elevation (ft)	1250.31
Drought Index (PDSI)	Mild wetness
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2015-10-01	2.145276	3.685039	2.767717	Normal	2	3	6
2015-09-01	3.276378	5.058662	3.188976	Dry	1	2	2
2015-08-02	2.499606	4.783071	5.26378	Wet	3	1	3

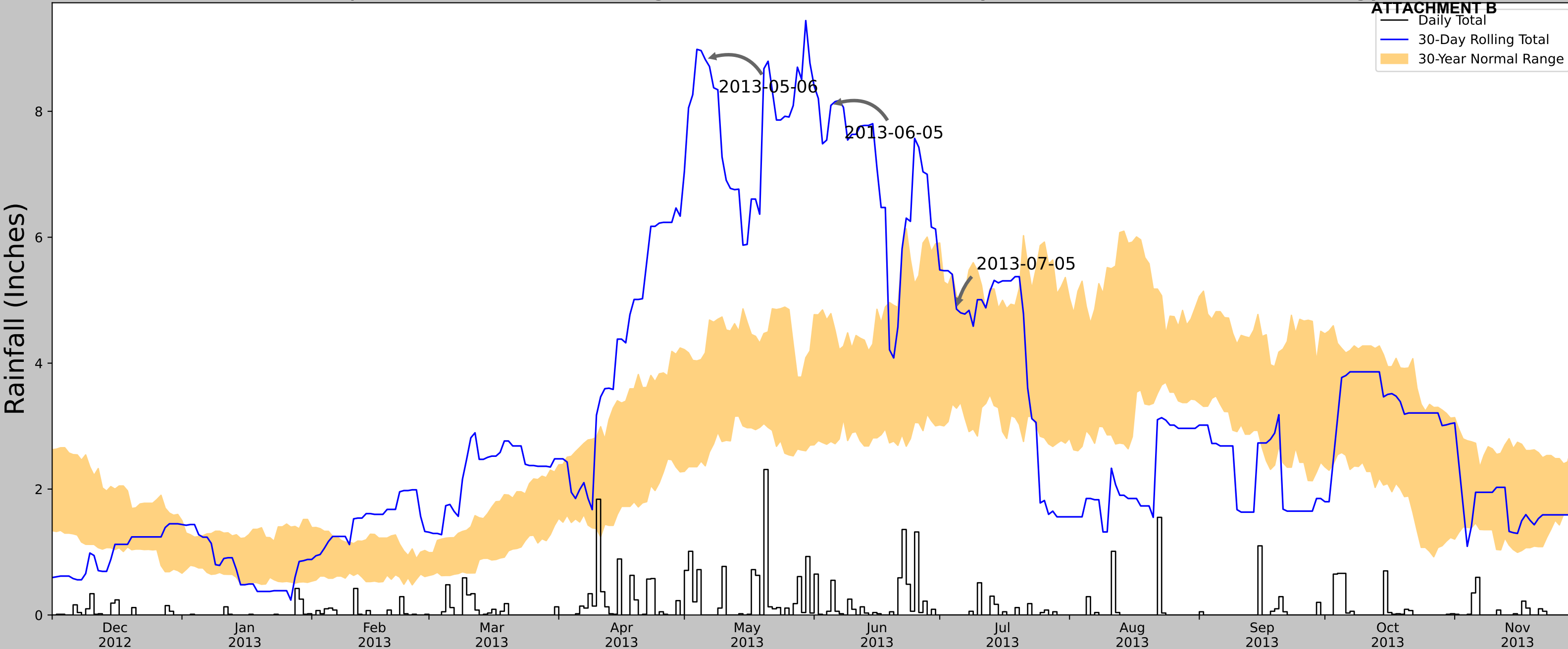
Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ELGIN 2SSW	44.0969, -92.2703	1109.908	2.88	140.402	1.7	11109	85
ROCHESTER 5.8 ENE	44.0458, -92.3703	1225.066	6.092	115.158	3.443	27	0
ROCHESTER 4.1 ENE	44.0422, -92.4047	1191.929	7.668	82.021	4.08	9	4
ROCHESTER 5.1 E	44.0019, -92.3783	1062.992	8.476	46.916	4.212	1	1
ROCHESTER 3.6 NE	44.0569, -92.4348	1217.848	8.62	107.94	4.809	7	0
ELBA 4.7 SW	44.0415, -92.0882	1040.026	9.817	69.882	5.104	1	0
ROCHESTER 3.9 ESE	43.9929, -92.4074	1032.152	9.899	77.756	5.224	17	0
ZUMBRO FALLS 3.5 SSW	44.2389, -92.4551	1105.971	13.422	3.937	6.093	1	0
ROCHESTER 2.5 W	44.0116, -92.5293	1154.856	14.147	44.948	7.002	4	0
ALTURA 5W	44.0633, -92.0397	865.158	11.679	244.75	8.114	25	0
ZUMBRO FALLS 2NE	44.3033, -92.4044	1033.137	15.732	76.771	8.287	29	0
ROCHESTER AP 2NE	43.9336, -92.4728	1233.924	15.118	124.016	8.678	33	0
BYRON 4NORTH	44.0908, -92.64	1041.011	18.35	68.897	9.522	20	0
ZUMBRO FALLS	44.2853, -92.4311	879.921	15.261	229.987	10.377	3	0
THEILMAN 1SSW	44.2811, -92.1944	752.953	13.271	356.955	10.709	65	0



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Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	44.0695075, -92.3140347
Observation Date	2013-07-05
Elevation (ft)	1250.31
Drought Index (PDSI)	Extreme wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2013-07-05	3.284252	5.067323	4.858268	Normal	2	3	6
2013-06-05	2.757087	4.787402	8.094488	Wet	3	2	6
2013-05-06	2.368504	4.164961	8.822835	Wet	3	1	3

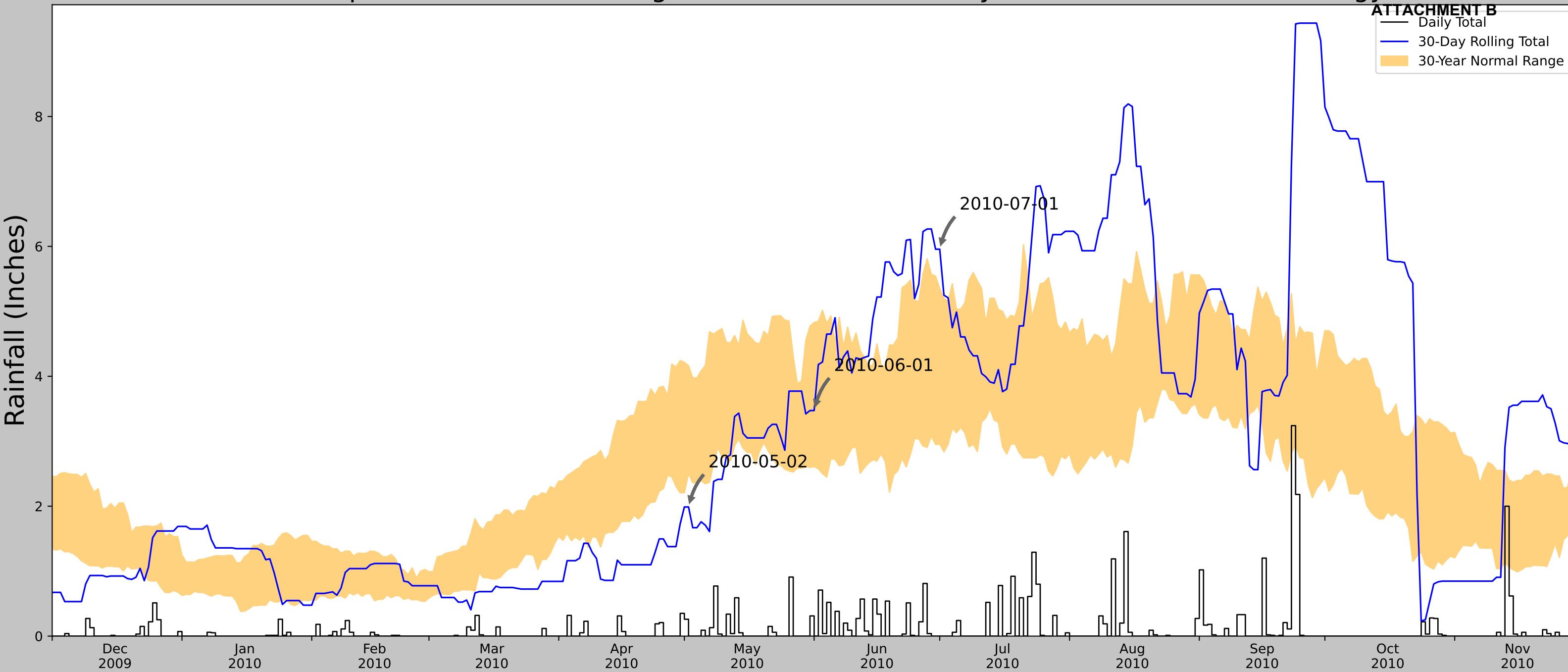
Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ELGIN 2SSW	44.0969, -92.2703	1109.908	2.88	140.402	1.7	11127	89
ROCHESTER 5.8 ENE	44.0458, -92.3703	1225.066	6.092	115.158	3.443	11	1
ROCHESTER 4.1 ENE	44.0422, -92.4047	1191.929	7.668	82.021	4.08	2	0
ROCHESTER 3.6 NE	44.0569, -92.4348	1217.848	8.62	107.94	4.809	7	0
ELBA 4.7 SW	44.0415, -92.0882	1040.026	9.817	69.882	5.104	1	0
ROCHESTER 3.9 ESE	43.9929, -92.4074	1032.152	9.899	77.756	5.224	17	0
ZUMBRO FALLS 3.5 SSW	44.2389, -92.4551	1105.971	13.422	3.937	6.093	1	0
ROCHESTER 2.5 W	44.0116, -92.5293	1154.856	14.147	44.948	7.002	4	0
ALTURA 5W	44.0633, -92.0397	865.158	11.679	244.75	8.114	25	0
ZUMBRO FALLS 2NE	44.3033, -92.4044	1033.137	15.732	76.771	8.287	29	0
ROCHESTER AP 2NE	43.9336, -92.4728	1233.924	15.118	124.016	8.678	33	0
BYRON 4NORTH	44.0908, -92.64	1041.011	18.35	68.897	9.522	20	0
ZUMBRO FALLS	44.2853, -92.4311	879.921	15.261	229.987	10.377	10	0
THEILMAN 1SSW	44.2811, -92.1944	752.953	13.271	356.955	10.709	65	0
ROCHESTER INTL AP	43.9929, -92.4074	1032.152	13.285	106.104	11.176	1	0



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Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	44.0695075, -92.3140347
Observation Date	2010-07-01
Elevation (ft)	1250.31
Drought Index (PDSI)	Mild wetness
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2010-07-01	2.955906	5.346851	5.956693	Wet	3	3	9
2010-06-01	2.609449	4.82874	3.472441	Normal	2	2	4
2010-05-02	2.505906	4.164567	1.988189	Dry	1	1	1
Result							Normal Conditions - 14

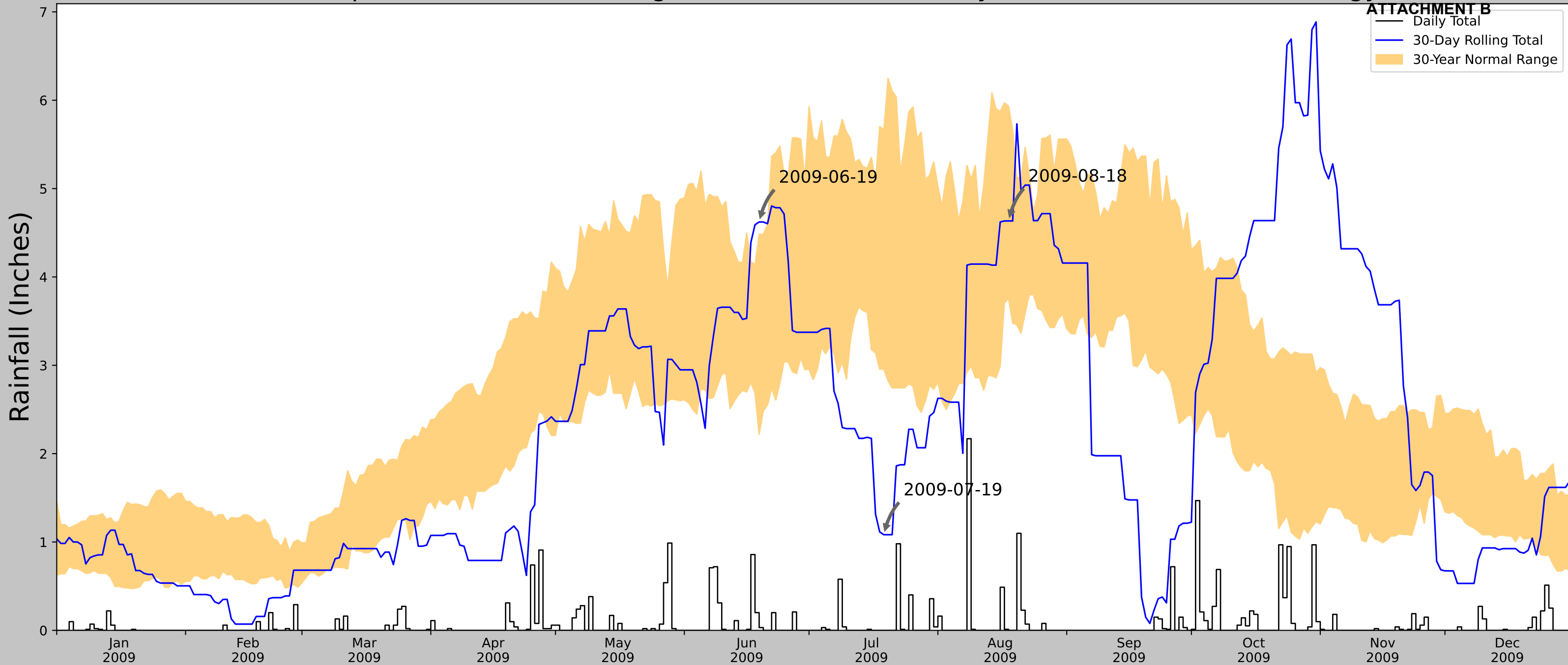


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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ELGIN 2SSW	44.0969, -92.2703	1109.908	2.88	140.402	1.7	11168	90
ROCHESTER SEWAGE	44.0667, -92.4667	980.971	9.969	128.937	5.771	1	0
ALTURA 5W	44.0633, -92.0397	865.158	11.679	244.75	8.114	23	0
ZUMBRO FALLS 2NE	44.3033, -92.4044	1033.137	15.732	76.771	8.287	29	0
ROCHESTER AP 2NE	43.9336, -92.4728	1233.924	15.118	124.016	8.678	33	0
BYRON 4NORTH	44.0908, -92.64	1041.011	18.35	68.897	9.522	20	0
ZUMBRO FALLS	44.2853, -92.4311	879.921	15.261	229.987	10.377	13	0
THEILMAN 1SSW	44.2811, -92.1944	752.953	13.271	356.955	10.709	65	0
ROCHESTER INTL AP	43.9039, -92.4919	1306.102	17.295	196.194	11.176	1	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	44.0695075, -92.3140347
Observation Date	2009-08-18
Elevation (ft)	1250.31
Drought Index (PDSI)	Normal
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2009-08-18	3.755118	5.935827	4.633858	Normal	2	3	6
2009-07-19	2.956299	5.662599	1.082677	Dry	1	2	2
2009-06-19	2.216536	4.48189	4.622047	Wet	3	1	3
Result							Normal Conditions - 11

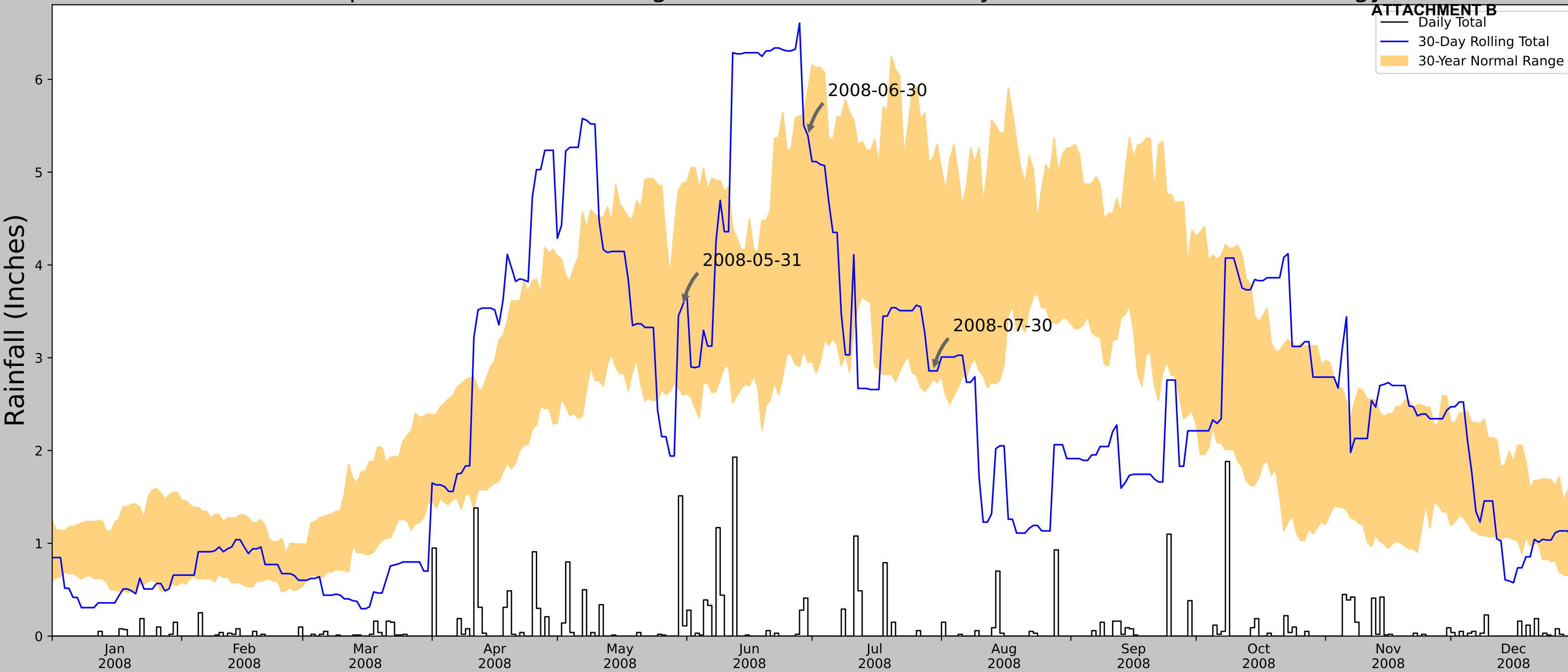


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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ELGIN 2SSW	44.0969, -92.2703	1109.908	2.88	140.402	1.7	11168	90
ROCHESTER SEWAGE	44.0667, -92.4667	980.971	9.969	128.937	5.771	1	0
ALTURA 5W	44.0633, -92.0397	865.158	11.679	244.75	8.114	23	0
ZUMBRO FALLS 2NE	44.3033, -92.4044	1033.137	15.732	76.771	8.287	29	0
ROCHESTER AP 2NE	43.9336, -92.4728	1233.924	15.118	124.016	8.678	33	0
BYRON 4NORTH	44.0908, -92.64	1041.011	18.35	68.897	9.522	20	0
ZUMBRO FALLS	44.2853, -92.4311	879.921	15.261	229.987	10.377	13	0
THEILMAN 1SSW	44.2811, -92.1944	752.953	13.271	356.955	10.709	65	0
ROCHESTER INTL AP	43.9039, -92.4919	1306.102	17.295	196.194	11.176	1	0

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	44.0695075, -92.3140347
Observation Date	2008-07-30
Elevation (ft)	1250.31
Drought Index (PDSI)	Normal
WebWIMP H ₂ O Balance	Dry Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2008-07-30	2.77126	5.153543	2.858268	Normal	2	3	6
2008-06-30	2.950394	5.896851	5.393701	Normal	2	2	4
2008-05-31	2.598425	4.879528	3.562992	Normal	2	1	2
Result							Normal Conditions - 12



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Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ELGIN 2SSW	44.0969, -92.2703	1109.908	2.88	140.402	1.7	11167	90
ROCHESTER SEWAGE	44.0667, -92.4667	980.971	9.969	128.937	5.771	1	0
ALTURA 5W	44.0633, -92.0397	865.158	11.679	244.75	8.114	23	0
ZUMBRO FALLS 2NE	44.3033, -92.4044	1033.137	15.732	76.771	8.287	29	0
ROCHESTER AP 2NE	43.9336, -92.4728	1233.924	15.118	124.016	8.678	33	0
BYRON 4NORTH	44.0908, -92.64	1041.011	18.35	68.897	9.522	20	0
ZUMBRO FALLS	44.2853, -92.4311	879.921	15.261	229.987	10.377	13	0
THEILMAN 1SSW	44.2811, -92.1944	752.953	13.271	356.955	10.709	65	0
ROCHESTER INTL AP	43.9039, -92.4919	1306.102	17.295	196.194	11.176	1	0

ATTACHMENT B

Wetness Signature	Aerial Review Results	Associated Wetland Data Point	Wetland ID	Figure 5 Page Number	Appendix D Page Number	Wetland Indicators				
						Wetland Hydrology		Hydrophytic Vegetation	Hydric Soils	Notes
						Primary	Secondary			
ws001	Yes, if additional indicators	adp01	N/A	N/A	1	None	C9 - Saturation Visible on Aerial Imagery	None	A12 - Thick Dark Surface	Sideslope, no local relief
ws002	No wetland	N/A	N/A	N/A	1					
ws003	No wetland	N/A	N/A	N/A	1					
ws004	Yes, if additional indicators	adp63	N/A	N/A	1	None	C9 - Saturation Visible on Aerial Imagery	None	F6 - Redox Dark Surface	Sideslope, no local relief
ws005	Yes, if additional indicators	adp15	N/A	N/A	1	None	C9 - Saturation Visible on Aerial Imagery	Yes	None	Sideslope, no local relief
ws006	Yes, if additional indicators	adp14	N/A	N/A	1	None	C9 - Saturation Visible on Aerial Imagery	None	None	Sideslope, no local relief
ws007	Yes, if additional indicators	adp11	N/A	N/A	1	None	C9 - Saturation Visible on Aerial Imagery	None	None	Sideslope, no local relief
ws008	Yes, if additional indicators	adp12	N/A	N/A	1	None	C9 - Saturation Visible on Aerial Imagery	None	None	Sideslope, no local relief
ws009	Yes, if additional indicators	adp13	N/A	N/A	1	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position D5 - FAC-neutral test	Yes	None	
ws010	Yes, if additional indicators	adp21	N/A	N/A	1	None	C9 - Saturation Visible on Aerial Imagery	None	None	Sideslope, no local relief
ws011	Yes, if additional indicators	adp22	N/A	N/A	1, 2	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	
ws012	Yes, if additional indicators	bdp05	N/A	N/A	2	None	C9 - Saturation Visible on Aerial Imagery	None	None	Backslope, no local relief
ws013	Yes, if additional indicators	bdp06	N/A	N/A	2	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	
ws014	No wetland	N/A	N/A	N/A	2					
ws015	Yes, if additional indicators	bdp48	N/A	N/A	2	None	C9 - Saturation Visible on Aerial Imagery	None	None	Adjacent roadside ditch is lower in elevation. This area is likely in the lateral drainage effect area of the ditch.
ws016	Yes, if additional indicators	bdp08	N/A	N/A	2	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	
ws017	Yes, if additional indicators	bdp07	w14	9	2	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position D5 - FAC-neutral test	Yes - Dominance Test	F3 - Depleted Matrix	
ws018	Yes, if additional indicators	bdp08	N/A	N/A	2	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	
ws019	Yes, if additional indicators	bdp09	N/A	N/A	2	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	
ws020	Yes, if additional indicators	bdp49	N/A	N/A	2	None	C9 - Saturation Visible on Aerial Imagery	None	None	Backslope, no local relief

ATTACHMENT B

Wetness Signature	Aerial Review Results	Associated Wetland Data Point	Wetland ID	Figure 5 Page Number	Appendix D Page Number	Wetland Indicators				
						Wetland Hydrology		Hydrophytic Vegetation	Hydric Soils	Notes
						Primary	Secondary			
ws021	No wetland	N/A	N/A	N/A	2					
ws022	Yes, if additional indicators	bdp10	N/A	N/A	2	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	F6 - Redox Dark Surface	Upland swale. Upland vegetation dominant
ws023	No wetland	N/A	N/A	N/A	3					
ws024	Yes, if additional indicators	adp23	N/A	N/A	3	None	C9 - Saturation Visible on Aerial Imagery	None	None	Sideslope, no local relief
ws025	No wetland	N/A	N/A	N/A	3					
ws026	Yes, if additional indicators	adp38	w08	11	3	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	Yes - Problematic	F6 - Redox Dark Surface A12 - Thick Dark Surface	
ws027	No wetland	N/A	N/A	N/A	3					
ws028	Yes, if additional indicators	cdp22	w10	7, 8, 11, 12	3	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position D5 - FAC-neutral test	Yes - Rapid Test	F6 - Redox Dark Surface	
ws029	Yes, if additional indicators	cdp19	N/A	N/A	3	None	C9 - Saturation Visible on Aerial Imagery	None	F6 - Redox Dark Surface	Drain tile present
ws030	Yes, if additional indicators	cdp17	w12	12	3	None	B6 - Surface Soil Cracks C9 - Saturation Visible on Aerial Imagery	Yes - Dominance Test	A11 - Depleted Below Dark Surface F2 - Loamy Gleyed Matrix	
ws031	No wetland	N/A	N/A	N/A	3					
ws032	No wetland	N/A	N/A	N/A	3					
ws033	Yes, if additional indicators	bdp50	N/A	N/A	3	None	C9 - Saturation Visible on Aerial Imagery	None	None	Backslope, no local relief
ws034	Yes, if additional indicators	bdp18	N/A	N/A	3	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	Upland swale. Upland vegetation dominant
ws035	Yes, if additional indicators	bdp53	N/A	N/A	3	None	C9 - Saturation Visible on Aerial Imagery	None	None	Backslope, no local relief
ws036	Yes, if additional indicators	bdp52	N/A	N/A	3	None	C9 - Saturation Visible on Aerial Imagery	None	None	Backslope, no local relief
ws037	Yes, if additional indicators	cdp16	N/A	N/A	3	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	
ws038	Yes, if additional indicators	bdp17	N/A	N/A	3, 6	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	Upland swale. Upland vegetation dominant
ws039	Yes, if additional indicators	bdp16	N/A	N/A	6	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	Upland swale. Upland vegetation dominant
ws040	Yes, if additional indicators	bdp14	N/A	N/A	5, 6	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	Upland swale. Upland vegetation dominant

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Wetness Signature	Aerial Review Results	Associated Wetland Data Point	Wetland ID	Figure 5 Page Number	Appendix D Page Number	Wetland Indicators				
						Wetland Hydrology		Hydrophytic Vegetation	Hydric Soils	Notes
						Primary	Secondary			
ws041	Yes, if additional indicators	bdp15	N/A	N/A	5, 6	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	Upland swale. Upland vegetation dominant
ws042	Yes, if additional indicators	bdp11	N/A	N/A	5, 6	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	F6 - Redox Dark Surface	Upland swale. Upland vegetation dominant
ws043	Yes, if additional indicators	bdp12	N/A	N/A	5, 6	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	Upland swale. Upland vegetation dominant
ws044	Yes, if additional indicators	adp35	N/A	N/A	5, 6	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	
ws045	Yes, if additional indicators	adp34	N/A	N/A	5, 6	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	
ws046	No wetland	N/A	N/A	N/A	5		None			
ws047	No wetland	N/A	N/A	N/A	5		None			
ws048	No wetland	N/A	N/A	N/A	5		None			
ws049	Yes, if additional indicators	bdp23	w30	27	5, 8	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position D5 - FAC-neutral test	Yes - Dominance Test	A12 - Thick Dark Surface	
ws050	Yes, if additional indicators	bdp26	N/A	N/A	8	None	C9 - Saturation Visible on Aerial Imagery D5 - FAC-neutral test	Yes - Rapid test	None	Upland swale. Upland vegetation dominant
ws051	No wetland	N/A	N/A	N/A	8					
ws052	Yes, if additional indicators	bdp27, bdp28	N/A	N/A	8	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	
ws053	No wetland	N/A	N/A	N/A	8					
ws054	Yes, if additional indicators	bdp45	w27	31	8		C9 - Saturation Visible on Aerial Imagery D5 - FAC-neutral test	Yes - Rapid Test	F6 - Redox Dark Surface	
ws055	Yes, if additional indicators	bdp44	N/A	N/A	8	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	Upland swale. Upland vegetation dominant
ws056	Yes, if additional indicators	bdp33	N/A	N/A	8	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	Upland swale. Upland vegetation dominant
ws057	Yes, if additional indicators	bdp34	N/A	N/A	8	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	Upland swale. Upland vegetation dominant
ws058	Yes, if additional indicators	bdp38	N/A	N/A	8	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	Upland swale. Upland vegetation dominant
ws059	No wetland	N/A	N/A	N/A	8					
ws060	Yes, if additional indicators	bdp39	w26	31, 32, 36, 37	8	None	C9 - Saturation Visible on Aerial Imagery D5 - FAC-neutral test	Yes - Rapid Test	A11 - Depleted Below Dark Surface	

ATTACHMENT B

Wetness Signature	Aerial Review Results	Associated Wetland Data Point	Wetland ID	Figure 5 Page Number	Appendix D Page Number	Wetland Indicators				
						Wetland Hydrology		Hydrophytic Vegetation	Hydric Soils	Notes
						Primary	Secondary			
ws061	Yes, if additional indicators	bdp37	N/A	N/A	8	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	Upland swale. Upland vegetation dominant
ws062	No wetland	N/A	N/A	N/A	8					
ws063	Yes, if additional indicators	bdp36	N/A	N/A	8	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	F6 - Redox Dark Surface	Upland swale. Upland vegetation dominant
ws064	No wetland	N/A	N/A	N/A	3					
ws065	Yes, if additional indicators	cdp13	w17	12	3	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	Yes - Prevalence Index	A12 - Thick Dark Surface F6 - Redox Dark Surface	
ws066	No wetland	N/A	N/A	N/A	6					
ws067	Yes, if additional indicators	cdp09, cdp11	w18	17, 18	4, 6	A2 - High Water Table A3 - Saturation	C9 - Saturation Visible on Aerial Imagery D5 - FAC-neutral test	Yes - Dominance Test, Rapid Test	F6 - Redox Dark Surface, Other	
ws068	Yes, if additional indicators	cdp03	w18	17, 18	4	None	B6 - Surface Soil Cracks B10 - Drainage Patterns C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	Yes - Problematic	A12 - Thick Dark Surface F6 - Redox Dark Surface	
ws069	Yes, if additional indicators	cdp03	w18	17, 18	4	None	B6 - Surface Soil Cracks B10 - Drainage Patterns C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	Yes - Problematic	A12 - Thick Dark Surface F6 - Redox Dark Surface	
ws070	No wetland	N/A	N/A	N/A	4	None				
ws071	Yes, if additional indicators	adp45	N/A	N/A	7	None	C9 - Saturation Visible on Aerial Imagery	None	None	Sideslope, no local relief. Upland vegetation dominant.
ws072	Yes, if additional indicators	adp44	N/A	N/A	7	None	C9 - Saturation Visible on Aerial Imagery	None	None	Sideslope, no local relief. Upland vegetation dominant.
ws073	Yes, if additional indicators	adp53	N/A	N/A	7	None	C9 - Saturation Visible on Aerial Imagery	None	None	Sideslope, no local relief. Upland vegetation dominant.
ws074	Yes, if additional indicators	adp54	N/A	N/A	7	None	C9 - Saturation Visible on Aerial Imagery	None	None	Sideslope, no local relief. Upland vegetation dominant.
ws075	Yes, if additional indicators	adp54	N/A	N/A	7	None	C9 - Saturation Visible on Aerial Imagery	None	None	Sideslope, no local relief. Upland vegetation dominant.
ws076	Yes, if additional indicators	adp56	N/A	N/A	9	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	Upland swale. Upland vegetation dominant
ws077	Yes, if additional indicators	adp59	N/A	N/A	9	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	
ws078	No wetland	N/A	N/A	N/A	9					

ATTACHMENT B

Wetness Signature	Aerial Review Results	Associated Wetland Data Point	Wetland ID	Figure 5 Page Number	Appendix D Page Number	Wetland Indicators				
						Wetland Hydrology		Hydrophytic Vegetation	Hydric Soils	Notes
						Primary	Secondary			
ws079	No wetland	N/A	N/A	N/A	9					
ws080	Yes, if additional indicators	adp55	N/A	N/A	9	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	Upland swale. Upland vegetation dominant
ws081	Yes, if additional indicators	ddp09	N/A	N/A	9	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	None	None	Upland swale. Upland vegetation dominant
ws082	No wetland	N/A	N/A	N/A	9					
ws083	No wetland	N/A	N/A	N/A	9					
ws084	No wetland	N/A	N/A	N/A	9					
ws085	No wetland	N/A	N/A	N/A	9					
ws086	No wetland	N/A	N/A	N/A	9					
ws087	No wetland	N/A	N/A	N/A	9					
ws088	Yes, if additional indicators	adp62	N/A	N/A	10	None	C9 - Saturation Visible on Aerial Imagery	None	None	Sideslope, no local relief.
ws089	Yes, if additional indicators	adp63	N/A	N/A	10	None	C9 - Saturation Visible on Aerial Imagery	None	F6 - Redox Dark Surface	Sideslope, no local relief.
ws090	No wetland	N/A	N/A	N/A	10					
ws091	No wetland	N/A	N/A	N/A	10					
ws092	Yes, if additional indicators	adp60	w21	40, 41	10	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	Yes - Problematic	A11 - Depleted Below Dark Surface	
ws093	No wetland	N/A	N/A	N/A	10					
ws094	No wetland	N/A	N/A	N/A	10					
ws095	No wetland	N/A	N/A	N/A	10					
ws096	No wetland	N/A	N/A	N/A	10					
ws097	No wetland	N/A	N/A	N/A	10					
ws098	No wetland	N/A	N/A	N/A	10					
ws099	No wetland	N/A	N/A	N/A	10					
ws100	Yes	dp11, dp13	w37	42, 43	10	None	C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position	Yes - Problematic at dp13	Soil sampled to a depth of 44 inches; presumed to meet A12 - Thick Dark Surface	
ws101	Yes	dp01, dp03, dp04, dp06	w35	1, 3	1	A2 – High Water Table A3 – Saturation B9 – Water-stained Leaves	C9 – Saturation Visible on Aerial Imagery D2 – Geomorphic Position D5 – FAC-neutral Test	Yes	F1 – Loamy Mucky Mineral F6 – Redox Dark Surface F7 – Depleted Dark Surface	
ws102	Yes, if additional indicators	dp07	w36	3	1	None	C9 – Saturation Visible on Aerial Imagery D2 – Geomorphic Position	Yes - Problematic	F3 – Depleted Matrix	

Indicates the criteria for the associated wetland indicator has been met. All three indicators (hydrology, hydrophytic vegetation, and hydric soils) must be present to confirm presence of a wetland.
Indicates a wet signature that was delineated as a wetland.

Appendix F
Antecedent Precipitation Analysis

Minnesota State Climatology Office

State Climatology Office - DNR Division of Ecological and Water Resources

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Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:

county: **Olmsted** township number: **107N**
 township name: **Haverhill** range number: **13W**
 nearest community: **Ringe** section number: **12**

Aerial photograph or site visit date:

Monday, June 3, 2024

Score using 1991-2020 normal period

values are in inches A 'R' following a monthly total indicates a provisional value derived from radar-based estimates.	first prior month: May 2024	second prior month: April 2024	third prior month: March 2024
estimated precipitation total for this location:	4.94R	3.14	2.46
there is a 30% chance this location will have less than:	3.25	2.19	1.09
there is a 30% chance this location will have more than:	5.29	4.08	2.44
type of month: dry normal wet	normal	normal	wet
monthly score	3 * 2 = 6	2 * 2 = 4	1 * 3 = 3
multi-month score: 6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet)	13 (Normal)		

Other Resources:

- [retrieve daily precipitation data](#)
- [view radar-based precipitation estimates](#)
- [view weekly precipitation maps](#)
- [Evaluating Antecedent Precipitation Conditions](#) (BWSR)

Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:
county: **Olmsted** township number: **107N**
township name: **Haverhill** range number: **13W**
nearest community: **Ringe** section number: **12**

Aerial photograph or site visit date:
Wednesday, June 19, 2024

Score using 1991-2020 normal period

<div>values are in inches</div> <div>A 'R' following a monthly total indicates a provisional value derived from radar-based estimates.</div>	first prior month: May 2024	second prior month: April 2024	third prior month: March 2024
estimated precipitation total for this location:	4.94R	3.14	2.46
there is a 30% chance this location will have less than:	3.25	2.19	1.09
there is a 30% chance this location will have more than:	5.29	4.08	2.44
type of month: dry normal wet	normal	normal	wet
monthly score	3 * 2 = 6	2 * 2 = 4	1 * 3 = 3
multi-month score: 6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet)	13 (Normal)		

- Other Resources:
- [retrieve daily precipitation data](#)
 - [view radar-based precipitation estimates](#)
 - [view weekly precipitation maps](#)
 - [Evaluating Antecedent Precipitation Conditions](#) (BWSR)

Minnesota State Climatology Office

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Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:

county: **Olmsted** township number: **107N**
township name: **Haverhill** range number: **13W**
nearest community: **Viola** section number: **13**

Aerial photograph or site visit date:

Tuesday, May 28, 2024

Score using 1991-2020 normal period

values are in inches A 'R' following a monthly total indicates a provisional value derived from radar-based estimates.	first prior month: April 2024	second prior month: March 2024	third prior month: February 2024
estimated precipitation total for this location:	3.38R	2.38R	0.25
there is a 30% chance this location will have less than:	2.27	1.07	0.68
there is a 30% chance this location will have more than:	4.20	2.44	1.14
type of month: dry normal wet	normal	normal	dry
monthly score	3 * 2 = 6	2 * 2 = 4	1 * 1 = 1
multi-month score: 6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet)			
11 (Normal)			

Other Resources:

- [retrieve daily precipitation data](#)
- [view radar-based precipitation estimates](#)
- [view weekly precipitation maps](#)
- [Evaluating Antecedent Precipitation Conditions](#) (BWSR)

Minnesota State Climatology Office

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Precipitation Worksheet Using Gridded Database

Precipitation data for target wetland location:

county: **Olmsted** township number: **107N**

township name: **Haverhill** range number: **13W**

nearest community: **Viola** section number: **12**

Aerial photograph or site visit date:

Friday, May 2, 2025

Score using 1991-2020 normal period

values are in inches A 'R' following a monthly total indicates a provisional value derived from radar-based estimates .	first prior month: April 2025	second prior month: March 2025	third prior month: February 2025
estimated precipitation total for this location:	4.15R	2.69R	0.35
there is a 30% chance this location will have less than:	2.21	1.09	0.68
there is a 30% chance this location will have more than:	4.14	2.45	1.15
type of month: dry normal wet	wet	wet	dry
monthly score	3 * 3 = 9	2 * 3 = 6	1 * 1 = 1
multi-month score: 6 to 9 (dry) 10 to 14 (normal) 15 to 18 (wet)	16 (Wet)		

Other Resources:

- [retrieve daily precipitation data](#)
- [view radar-based precipitation estimates](#)
- [view weekly precipitation maps](#)
- [Evaluating Antecedent Precipitation Conditions](#) (BWSR)