



<b>State:</b> LA	<b>Parish:</b> Acadia	<b>Section:</b> 32	<b>Township:</b> 10S	<b>Range:</b> 01W	<b>Date:</b> 1/28/25	<b>Location:</b> R-01				
<b>Project/Site:</b> Gastal (1705.A37)			<b>Investigator(s):</b> Matthew Greene							
<b>Latitude:</b> 30.13225		<b>Longitude:</b> -92.492702		<b>Datum:</b> NAD83		<b>Other Info:</b>				
<b>HERBACEOUS SPECIES-</b> [plot size = 5 feet radius]			<b>ROOT ZONE INTERPRETATION</b>							
Oryza sativa - Cultivated Rice (Stubble)			Depth BLS (Inches)	Root Mass Abundance	Remarks					
			0 - 1	Abundant	Effective Root Zone					
			1-3	Many						
			3-6	Common						
			6-9	Sparse						
			9-20	Very Sparse to None						
<b>SOIL PROFILE PROPERTIES</b>										
<b>Soil Type:</b> Crowley silt loam										
Depth BLS	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc				
0-6.5	10YR 4/2	70	10YR 4/6	30	C	M	Silt loam	Ap		0.75
6.5-9	10YR 5/2	100					Silty clay	E		< 0.70
9-20	10YR 6/2	80	10YR 5/8	20	C	M	Silty clay	Bt	Fe-Mn concretions	< 0.70
<b>Additional Colors:</b>										
<b>Restrictive Layer(if observed):</b>		<b>Type:</b> Plow pan		<b>Depth (inches):</b> 6						
<b>Remarks:</b> 1. Surface water depth: 12 inches 2. Rice stubble height: 14 inches										

**GASTAL PROPERTY**  
**SECTION 32, TOWNSHIP 10 SOUTH, RANGE 01 WEST**  
**ACADIA PARISH, LOUISIANA**





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**ACADIA PARISH, LOUISIANA**







<b>State:</b> LA	<b>Parish:</b> Acadia	<b>Section:</b> 32	<b>Township:</b> 10S	<b>Range:</b> 01W	<b>Date:</b> 1/28/25	<b>Location:</b> R-02				
<b>Project/Site:</b> Gastal (1705.A37)			<b>Investigator(s):</b> Matthew Greene							
<b>Latitude:</b> 30.13262		<b>Longitude:</b> -92.49219		<b>Datum:</b> NAD83	<b>Other Info:</b>					
<b>HERBACEOUS SPECIES-</b> [plot size = 5 feet radius]				<b>ROOT ZONE INTERPRETATION</b>						
Oryza sativa - Cultivated Rice (Stubble)				Depth BLS (Inches)	Root Mass Abundance	Remarks				
				0 - 1	Abundant	Effective Root Zone				
				1-3	Many					
				3-6	Common					
				6-9	Sparse					
				9-19	Very Sparse to None					
<b>SOIL PROFILE PROPERTIES</b>										
<b>Soil Type:</b> Crowley-Midland silt loam										
Depth BLS	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc				
0-6	10YR 5/2	70	10YR 4/6	30	C	M	Silt loam	Ap		0.75
6-8	10YR 5/1	100					Silty clay	E		< 0.70
8-19	10YR 6/2	80	10YR 6/6	20	C	M	Silty clay	Bt	Increase Clay Content, Fe & Mn Cresions	< 0.70
<b>Additional Colors:</b>										
<b>Restrictive Layer(if observed):</b>		<b>Type:</b> Plow pan		<b>Depth (inches):</b> 6						
<b>Remarks:</b> 1. Surface water depth: 11.5 inches 2. Rice stubble height: 15 inches										



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<b>State:</b> LA	<b>Parish:</b> Acadia	<b>Section:</b> 32	<b>Township:</b> 10S	<b>Range:</b> 01W	<b>Date:</b> 1/28/25	<b>Location:</b> R-03				
<b>Project/Site:</b> Gastal (1705.A37)			<b>Investigator(s):</b> Matthew Greene							
<b>Latitude:</b> 30.13028		<b>Longitude:</b> -92.49121		<b>Datum:</b> NAD83	<b>Other Info:</b>					
<b>HERBACEOUS SPECIES-</b> [plot size = 5 feet radius]				<b>ROOT ZONE INTERPRETATION</b>						
Oryza sativa - Cultivated Rice (Stubble)				Depth BLS (Inches)	Root Mass Abundance	Remarks				
				0 - 1.5	Abundant	Effective Root Zone				
				1.5-3.5	Many					
				3.5-7	Common					
				7-9	Sparse					
				9-16	Very Sparse to None					
<b>SOIL PROFILE PROPERTIES</b>										
<b>Soil Type:</b> Mowata silt loam										
Depth BLS	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc				
0-6.5	10YR 5/2	70	10YR 4/6	30	C	M	Silt loam	Ap		0.75
6.5-16	10YR 5/2	100					Silty clay	Bt		< 0.70
<b>Additional Colors:</b>										
<b>Restrictive Layer(if observed):</b>		<b>Type:</b> Plow pan		<b>Depth (inches):</b> 7						
<b>Remarks:</b> 1. Surface water depth: 12.5 inches 2. Rice stubble height: 17 inches										

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<b>State:</b> LA	<b>Parish:</b> Acadia	<b>Section:</b> 32	<b>Township:</b> 10S	<b>Range:</b> 01W	<b>Date:</b> 1/28/25	<b>Location:</b> R-04				
<b>Project/Site:</b> Gastal (1705.A37)			<b>Investigator(s):</b> Matthew Greene							
<b>Latitude:</b> 30.129505		<b>Longitude:</b> -92.49129		<b>Datum:</b> NAD83		<b>Other Info:</b>				
<b>HERBACEOUS SPECIES-</b> [plot size = 5 feet radius]			<b>ROOT ZONE INTERPRETATION</b>							
Oryza sativa - Cultivated Rice (Stubble)			Depth BLS (Inches)	Root Mass Abundance	Remarks					
			0-1	Abundant	Effective Root Zone					
			1-3	Many						
			3-6	Common						
			6-8	Sparse						
			8-18	Very Sparse to None						
<b>SOIL PROFILE PROPERTIES</b>										
<b>Soil Type:</b> Mowata silt loam										
Depth BLS	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc				
0-6	10YR 5/2	80	10YR 4/6	20	C	M	Silt loam	Ap		0.75
6-18	10YR 4/2	80	10YR 6/8	20	C	M	Silty clay	Bt		< 0.70
<b>Additional Colors:</b>										
<b>Restrictive Layer(if observed):</b>		<b>Type:</b> Plow pan		<b>Depth (inches):</b> 7						
<b>Remarks:</b> 1. Surface water depth: 11 inches 2. Rice stubble height: 17 inches										



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<b>State:</b> LA	<b>Parish:</b> Acadia	<b>Section:</b> 32	<b>Township:</b> 10S	<b>Range:</b> 01W	<b>Date:</b> 1/28/25	<b>Location:</b> R-05				
<b>Project/Site:</b> Gastal (1705.A37)			<b>Investigator(s):</b> Matthew Greene							
<b>Latitude:</b> 30.12842		<b>Longitude:</b> -92.49182		<b>Datum:</b> NAD83		<b>Other Info:</b>				
<b>HERBACEOUS SPECIES-</b> [plot size = 5 feet radius]				<b>ROOT ZONE INTERPRETATION</b>						
Oryza sativa - Cultivated Rice (Stubble)				Depth BLS (Inches)	Root Mass Abundance	Remarks				
				0-1.5	Abundant	Effective Root Zone				
				1.5-3.5	Many					
				3.5-6	Common					
				6-9	Sparse					
				9-19	Very Sparse to None					
<b>SOIL PROFILE PROPERTIES</b>										
<b>Soil Type:</b> Mowata silt loam										
Depth BLS	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc				
0-6	10YR 5/2	80	10YR 5/8	20	C	M	Silt loam	Ap		0.75
6-19	10YR 4/2	80	10YR 6/8	20	C	M	Silty clay	Bt		< 0.70
<b>Additional Colors:</b>										
<b>Restrictive Layer(if observed):</b>		<b>Type:</b> Plow pan		<b>Depth (inches):</b> 7						
<b>Remarks:</b> 1. Surface water depth: 12 inches 2. Rice stubble height: 14 inches										

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<b>Project/Site:</b> Gastal (1705.A37)			<b>Investigator(s):</b> Matthew Greene							
<b>Latitude:</b> 30.12884		<b>Longitude:</b> -92.49302		<b>Datum:</b> NAD83		<b>Other Info:</b>				
<b>HERBACEOUS SPECIES-</b> [plot size = 5 feet radius]			<b>ROOT ZONE INTERPRETATION</b>							
Juncus sp. - Rush species			Depth BLS (Inches)	Root Mass Abundance	Remarks					
			0-2	Abundant	Effective Root Zone					
			2-4	Many						
			4-9	Common						
			9-14	Sparse						
			14-24	Very Sparse to None						
<b>SOIL PROFILE PROPERTIES</b>										
<b>Soil Type:</b> Mowata silt loam										
Depth BLS	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc				
0-10	10YR 5/2	70	5YR 3/4	30	C	M	Silt loam	Ap		0.75
10-24	10YR 4/1	60	10YR 5/4	40	C	M	Silty clay	Bt		< 0.70
<b>Additional Colors:</b>										
<b>Restrictive Layer(if observed):</b>		<b>Type:</b> Plow Pan		<b>Depth (inches):</b> 7						
<b>Remarks:</b> 1. Surface water depth: .5 inches, saturated soil 2. Hand auger depth: 12-24 inches										



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<b>Project/Site:</b> Gastal (1705.A37)			<b>Investigator(s):</b> Matthew Greene							
<b>Latitude:</b> 30.128846		<b>Longitude:</b> -92.49305		<b>Datum:</b> NAD83		<b>Other Info:</b>				
<b>HERBACEOUS SPECIES-</b> [plot size = 5 feet radius]				<b>ROOT ZONE INTERPRETATION</b>						
Panicum capillare - Common Panic Grass				Depth BLS (Inches)	Root Mass Abundance	Remarks				
				0-2	Abundant	Effective Root Zone				
				2-4	Many					
				4-8	Common					
				8-11	Sparse					
				11-24	Very Sparse to None					
<b>SOIL PROFILE PROPERTIES</b>										
<b>Soil Type:</b> Mowata silt loam										
Depth BLS	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc				
0-10	10YR 5/2	70	5YR 3/4	30	C	M	Silt loam	Ap		0.75
10-24	10YR 4/1	60	10YR 5/4	40	C	M	Silty clay	Bt		< 0.70
Additional Colors:										
Restrictive Layer(if observed):		Type: Plow Pan		Depth (inches):		7				
Remarks: 1. Surface water depth: .5 inches, saturated soil 2. Hand auger depth: 15-24 inches 3. 0-2" layer of super saturated silt										



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<b>Project/Site:</b> Gastal (1705.A37)			<b>Investigator(s):</b> Matthew Greene							
<b>Latitude:</b> 30.129906		<b>Longitude:</b> -92.49312		<b>Datum:</b> NAD83		<b>Other Info:</b>				
<b>HERBACEOUS SPECIES-</b> [plot size = 5 feet radius]			<b>ROOT ZONE INTERPRETATION</b>							
Cynodon dactylon - Bermuda Grass			Depth BLS (Inches)	Root Mass Abundance	Remarks					
			0-2	Abundant	Effective Root Zone					
			2-5	Many						
			5-9	Common						
			9-12	Sparse						
			12-22	Very Sparse to None						
<b>SOIL PROFILE PROPERTIES</b>										
<b>Soil Type:</b> Mowata silt loam										
Depth BLS	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc				
0-7.5	10YR 5/2	70	5YR 3/4	30	C	M	Silt loam	Ap		0.75
7.5-17	10YR 4/2	100					Silty clay	Bt1		< 0.70
17-22	10YR 4/6	60	10YR 4/6	40	C	M	Silty clay	Bt2		< 0.70
<b>Additional Colors:</b>										
<b>Restrictive Layer(if observed):</b>		<b>Type:</b> Plow Pan		<b>Depth (inches):</b> 7						
<b>Remarks:</b> 1. Saturated soil 2. 20 inches long x 20 inches wide x 24 inches deep trench, 2 inches of water at bottom of trench										

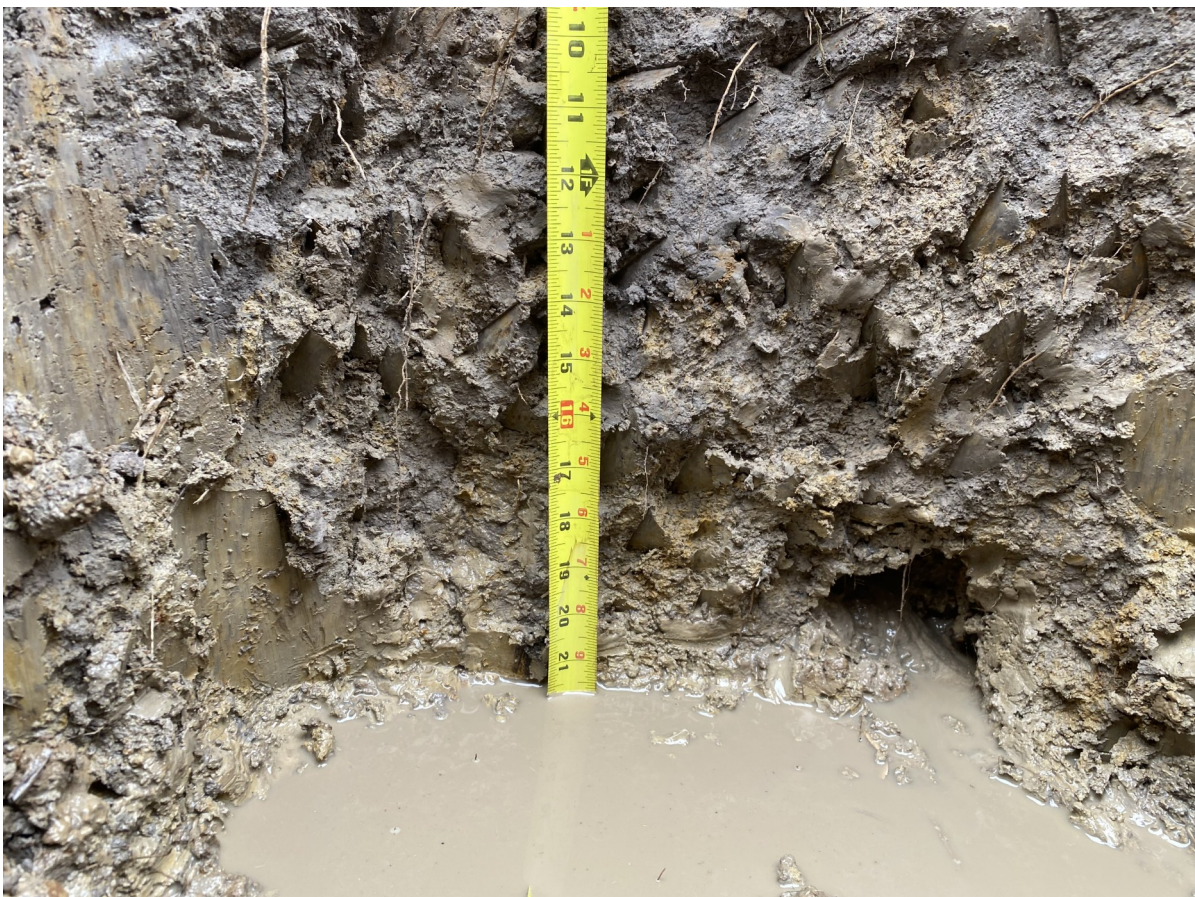


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<b>State:</b> LA	<b>Parish:</b> Acadia	<b>Section:</b> 32	<b>Township:</b> 10S	<b>Range:</b> 01W	<b>Date:</b> 1/28/25	<b>Location:</b> H-04				
<b>Project/Site:</b> Gastal (1705.A37)			<b>Investigator(s):</b> Matthew Greene							
<b>Latitude:</b> 30.12977		<b>Longitude:</b> -92.49591		<b>Datum:</b> NAD83	<b>Other Info:</b>					
<b>HERBACEOUS SPECIES-</b> [plot size = 5 feet radius]			<b>ROOT ZONE INTERPRETATION</b>							
Cynodon dactylon - Bermuda Grass			Depth BLS (Inches)	Root Mass Abundance	Remarks					
			0-1.5	Abundant	Effective Root Zone					
			1.5-5	Many						
			5-9	Common						
			9-13	Sparse						
			13-22	Very Sparse to None						
<b>SOIL PROFILE PROPERTIES</b>										
<b>Soil Type:</b> Crowley silt loam										
Depth BLS	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc				
0-7	10YR 5/2	100					Silt loam	Ap		0.75
7-22	10YR 6/2	100					Silty clay	Bt	Fe-Mn concretions	< 0.70
<b>Additional Colors:</b>										
<b>Restrictive Layer(if observed):</b>		<b>Type:</b> Plow Pan		<b>Depth (inches):</b> 7						
<b>Remarks:</b> 1. Water filled up to surface of plant removal trench 2. Hand auger depth: 14-22 inches										



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<b>Project/Site:</b> Gastal (1705.A37)			<b>Investigator(s):</b> Matthew Greene							
<b>Latitude:</b> 30.12975		<b>Longitude:</b> -92.49315		<b>Datum:</b> NAD83	<b>Other Info:</b>					
<b>HERBACEOUS SPECIES-</b> [plot size = 5 feet radius]				<b>ROOT ZONE INTERPRETATION</b>						
Baccharis halimifolia - Groundsel tree				Depth BLS (Inches)	Root Mass Abundance	Remarks				
Chloracantha spinosa - Mexican-Devilweed				0-2	Abundant	Effective Root Zone				
				2-4	Many					
				4-10	Common					
				10-13	Sparse					
				13-28	Very Sparse to None					
<b>SOIL PROFILE PROPERTIES</b>										
<b>Soil Type:</b> Mowata silt loam										
Depth BLS	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc				
0-6	10YR 5/2	70	5YR 3/4	30	C	M	Silt loam	Ap		0.75
6-12	10YR 4/2	100					Silty clay	Bt1		< 0.70
12-28	10YR 6/3	60	10YR 4/6	40	C	M	Silty clay	Bt2		< 0.70
<b>Additional Colors:</b>										
<b>Restrictive Layer(if observed):</b>		<b>Type:</b> Plow Pan		<b>Depth (inches):</b> 7						
<b>Remarks:</b> 1. Water depth: .5 inches 2. Hand auger depth: 19-28 inches										



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