

REPORT NUMBER

17-325-1083

COMPLETED DATE
Nov 24, 2017
RECEIVED DATE
Nov 21, 2017

ACCOUNT
17484



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PAGE 2/3

TODAY'S DATE
Nov 24, 2017

**THREE RIVERS FS GRID ACCOUNT
KYLE KEEHNER
217 NORTHSIDE ROAD
EARLVILLE IA 52041**

IDENTIFICATION
**SOULES FARMS
ROEPKE**

COPY TO
13698 ADVANCED CROP MANAGEMENT
2nd COPY TO **THREE RIVERS FS**
9075 SUSIE THOLE

SOIL ANALYSIS REPORT

LAB NUMBER	SAMPLE IDENTIFICATION	ORGANIC MATTER L.O.I. percent RATE	PHOSPHORUS					NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE)				pH		CATION EXCHANGE CAPACITY C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED)				
			P ₁ (WEAK BRAY) 1:7		P ₂ (STRONG BRAY) 1:7		MEHLICH III COLORIMETRIC P	POTASSIUM K	MAGNESIUM Mg	CALCIUM Ca	SODIUM Na	SOIL pH 1:1	BUFFER INDEX		% K	% Mg	% Ca	% H	% Na
			ppm	RATE	ppm	RATE													
324																			
04804	11	5.0 VH	15 M	22 M			150 M	470 VH	2244 H			6.6	6.9	16.5	2.3	23.7	68.0	6.0	
04805	12	3.5 M	15 M	21 M			133 M	404 VH	1852 M			5.9	6.7	15.7	2.2	21.4	59.0	17.4	
04806	13	1.7 L	32 VH	41 H			165 VH	180 VH	811 M			5.7	6.8	7.6	5.6	19.7	53.4	21.3	
04807	14	1.3 VL	80 VH	83 VH			211 VH	167 VH	755 M			6.7		5.7	9.5	24.4	66.1	0.0	
04808	15	4.3 H	11 L	18 L			152 H	485 VH	2151 H			6.9		15.2	2.6	26.6	70.8	0.0	
04809	16	4.9 VH	8 L	21 M			146 M	485 VH	2592 H			6.8		17.4	2.2	23.2	74.6	0.0	
04810	17	5.0 VH	10 L	16 L			103 L	468 VH	2455 H			6.4	6.8	18.0	1.5	21.7	68.2	8.6	
04811	18	3.3 M	13 L	19 L			160 H	314 VH	1452 M			5.9	6.7	12.4	3.3	21.1	58.5	17.1	
04812	19	5.0 VH	32 VH	44 H			156 M	517 VH	2286 H			6.8		16.1	2.5	26.8	70.7	0.0	
04813	20	2.4 L	21 M	25 M			184 VH	249 VH	1024 M			6.2	6.9	8.7	5.4	23.9	58.9	11.8	

INFO SHEET: 973633

LAB NUMBER	NITRATE-N (FIA)										SULFUR S ICAP	ZINC Zn DTPA	MANGANESE Mn DTPA	IRON Fe DTPA	COPPER Cu DTPA	BORON B SORB. DTPA	EXCESS LIME RATE	SOLUBLE SALTS 1:1 mmhos/cm RATE
	SURFACE			SUBSOIL 1			SUBSOIL 2			Total lbs/A								
	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)									
324																		
04804			0-6															
04805			0-6															
04806			0-6															
04807			0-6															
04808			0-6															
04809			0-6															
04810			0-6															
04811			0-6															
04812			0-6															
04813			0-6															

REV.12/03

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days. Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.

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SOIL ANALYSIS REPORT

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			P ₁ (WEAK BRAY) 1:7		P ₂ (STRONG BRAY) 1:7		MEHLICH III COLORIMETRIC P	K	Mg		Ca		Na		SOIL pH 1:1	BUFFER INDEX	% K	% Mg	% Ca	% H	% Na
			ppm	RATE	ppm	RATE			ppm	RATE	ppm	RATE									
324		percent RATE	ppm	RATE	ppm	RATE	ppm	RATE	ppm	RATE	ppm	RATE	ppm	RATE	meq/100g	% K	% Mg	% Ca	% H	% Na	
04814	21	2.0 L	20 M	27 M			187 VH	262 VH	1044 M			6.3	6.9	8.8	5.4	24.8	59.3	10.5			
04815	22	2.1 L	18 M	27 M			171 VH	237 VH	1004 M			5.9	6.8	8.9	4.9	22.2	56.4	16.5			
04816	23	2.2 L	24 H	33 M			193 VH	307 VH	1273 M			6.6	6.9	10.0	4.9	25.6	63.7	5.8			
04817	24	3.2 M	24 H	33 M			191 VH	296 VH	1308 M			6.3	6.8	10.6	4.6	23.3	61.7	10.4			
04818	25	4.1 H	8 L	13 L			123 M	407 VH	1858 M			6.2	6.7	14.8	2.1	22.9	62.8	12.2			
04819	26	5.0 VH	8 L	16 L			117 L	432 VH	2277 M			6.2	6.7	17.4	1.7	20.7	65.4	12.2			
04820	27	5.7 VH	8 L	18 L			126 L	580 VH	2939 H			6.6	6.8	21.2	1.5	22.8	69.3	6.4			
04821	28	4.1 H	10 L	17 L			130 M	417 VH	1959 M			6.3	6.8	15.2	2.2	22.9	64.4	10.5			
04822	29	3.5 M	13 L	19 L			173 H	527 VH	2008 M			6.8		14.9	3.0	29.5	67.5	0.0			

INFO SHEET: 973633

LAB NUMBER	NITRATE-N (FIA)										SULFUR S ICAP	ZINC Zn DTPA	MANGANESE Mn DTPA	IRON Fe DTPA	COPPER Cu DTPA	BORON B SORB. DTPA	EXCESS LIME RATE	SOLUBLE SALTS 1:1 mmhos/cm RATE
	SURFACE			SUBSOIL 1			SUBSOIL 2			Total lbs/A								
	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)									
324																		
04814			0-6															
04815			0-6															
04816			0-6															
04817			0-6															
04818			0-6															
04819			0-6															
04820			0-6															
04821			0-6															
04822			0-6															

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2017

TRFS Elkader - Edgewood, Iowa

Soules Farms

Roepke

Roepke

John Hogan

11/29/2017



Field Map

Location: TRFS Elkader
Customer: Soules Farms
Farm: Roepke

Fields: Roepke

Acres: 67.96





Field Reference Sheet

Ref #	Customer	Farm	Field	Field ID	Mgmt Zone	Acres
1	Soules Farms	Roepke	Roepke	433506	MASTER	67.96

Ref #	County Name	Township Name	Sections	Lat	Lon
1	Buchanan	Madison	5	42.641376	-91.700935

Color	Name	Total Acres
No color selected		67.96

Notes:

Total Acres: 67.96



Soil Zones Map

Customer: Soules Farms

Field: Roepke

Acres: 67.96

Farm: Roepke



Label	Name	Acres	Drainage	CSR	Corn Yield (bu/ac)	Soybean Yield (bu/ac)
1152	Marshan clay loam, 0 to 2 percent slopes	2.55		73	178	48
1226	Lawler loam, 24 to 40 inches to sand and gravel, 0 to 2	15.88		78	183	50
1585	Spillville-Coland complex, channeled, 0 to 2 percent slopes	0.01		5	93	25
177	Saude loam, 0 to 2 percent slopes	22.30		65	171	46
198B	Floyd loam, 1 to 4 percent slopes	10.50		80	194	52
284	Flagler sandy loam, 0 to 2 percent slopes	3.57		40	154	42
284B	Flagler sandy loam, 2 to 5 percent slopes	1.38		45	147	40
408B	Olin fine sandy loam, 2 to 5 percent slopes	3.69		67	176	48
41B	Sparta loamy fine sand, 2 to 5 percent slopes	0.01		40	140	38
776C	Lilah sandy loam, 2 to 9 percent slopes	0.35		8	97	26

Soil Zones Map

Label	Name	Acres	Drainage	CSR	Corn Yield (bu/ac)	Soybean Yield (bu/ac)
782B	Donnan loam, 2 to 6 percent slopes	0.10		50	164	44
83B	Kenyon loam, 2 to 5 percent slopes	2.33		87	202	55
84	Clyde clay loam, 0 to 3 percent slopes	5.29		77	189	51

Sample Management Report

Location: TRFS Elkader
Customer: Soules Farms
Dates: 2017-11-29

Farm: Roepke
Field: Roepke
Acres: 67.96





Soil Test Results

Location: TRFS Elkader
Customer: Soules Farms
Dates: 2017-11-29

Farm: Roepke
Field: Roepke
Acres: 67.96

ID	P (ppm)	K (ppm)	pH	OM	CEC	bpH	Ca (ppm)	Mg (ppm)	PerK	PerMg
1	50	123	7.1	3.2	10.7	7.1	1452	370.0	2.9	28.8
2	16	183	6.8	3.2	11.1	7.1	1469	389.0	4.2	29.2
3	27	244	6.9	2.7	11.2	7.1	1437	410.0	5.6	30.5
4	50	224	7.4	3.9	14.0	7.1	1929	451.0	4.1	26.8
5	32	272	6.8	2.4	9.8	7.1	1282	326.0	7.1	27.7
6	31	268	7.1	2.0	9.2	7.1	1185	311.0	7.5	28.2
7	25	242	6.7	1.9	8.5	7.1	1123	268.0	7.3	26.3
8	34	256	6.1	1.7	8.8	6.8	991	234.0	7.5	22.2
9	21	221	6.6	1.8	7.7	7.0	930	235.0	7.4	25.4
10	17	209	6.3	2.5	9.8	6.9	1162	294.0	5.5	25.0
11	15	150	6.6	5.0	16.5	6.9	2244	470.0	2.3	23.7
12	15	133	5.9	3.5	15.7	6.7	1852	404.0	2.2	21.4
13	32	165	5.7	1.7	7.6	6.8	811	180.0	5.6	19.7
14	80	211	6.7	1.3	5.7	7.1	755	167.0	9.5	24.4
15	11	152	6.9	4.3	15.2	7.1	2151	485.0	2.6	26.6
16	8	146	6.8	4.9	17.4	7.1	2592	485.0	2.2	23.2
17	10	103	6.4	5.0	18.0	6.8	2455	468.0	1.5	21.7
18	13	160	5.9	3.3	12.4	6.7	1452	314.0	3.3	21.1
19	32	156	6.8	5.0	16.1	7.1	2286	517.0	2.5	26.8
20	21	184	6.2	2.4	8.7	6.9	1024	249.0	5.4	23.9
21	20	187	6.3	2.0	8.8	6.9	1044	262.0	5.4	24.8
22	18	171	5.9	2.1	8.9	6.8	1004	237.0	4.9	22.2
23	24	193	6.6	2.2	10.0	6.9	1273	307.0	4.9	25.6
24	24	191	6.3	3.2	10.6	6.8	1308	296.0	4.6	23.3
25	8	123	6.2	4.1	14.8	6.7	1858	407.0	2.1	22.9
26	8	117	6.2	5.0	17.4	6.7	2277	432.0	1.7	20.7
27	8	126	6.6	5.7	21.2	6.8	2939	580.0	1.5	22.8
28	10	130	6.3	4.1	15.2	6.8	1959	417.0	2.2	22.9
29	13	173	6.8	3.5	14.9	7.1	2008	527.0	3.0	29.5
Avg.	23	180	6.5	3.2	12.3	6.9	1595	361.8	4.4	24.7

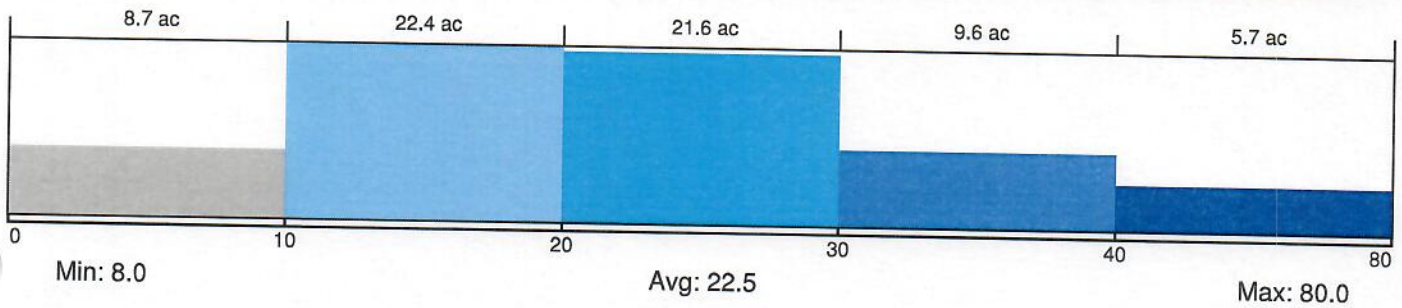
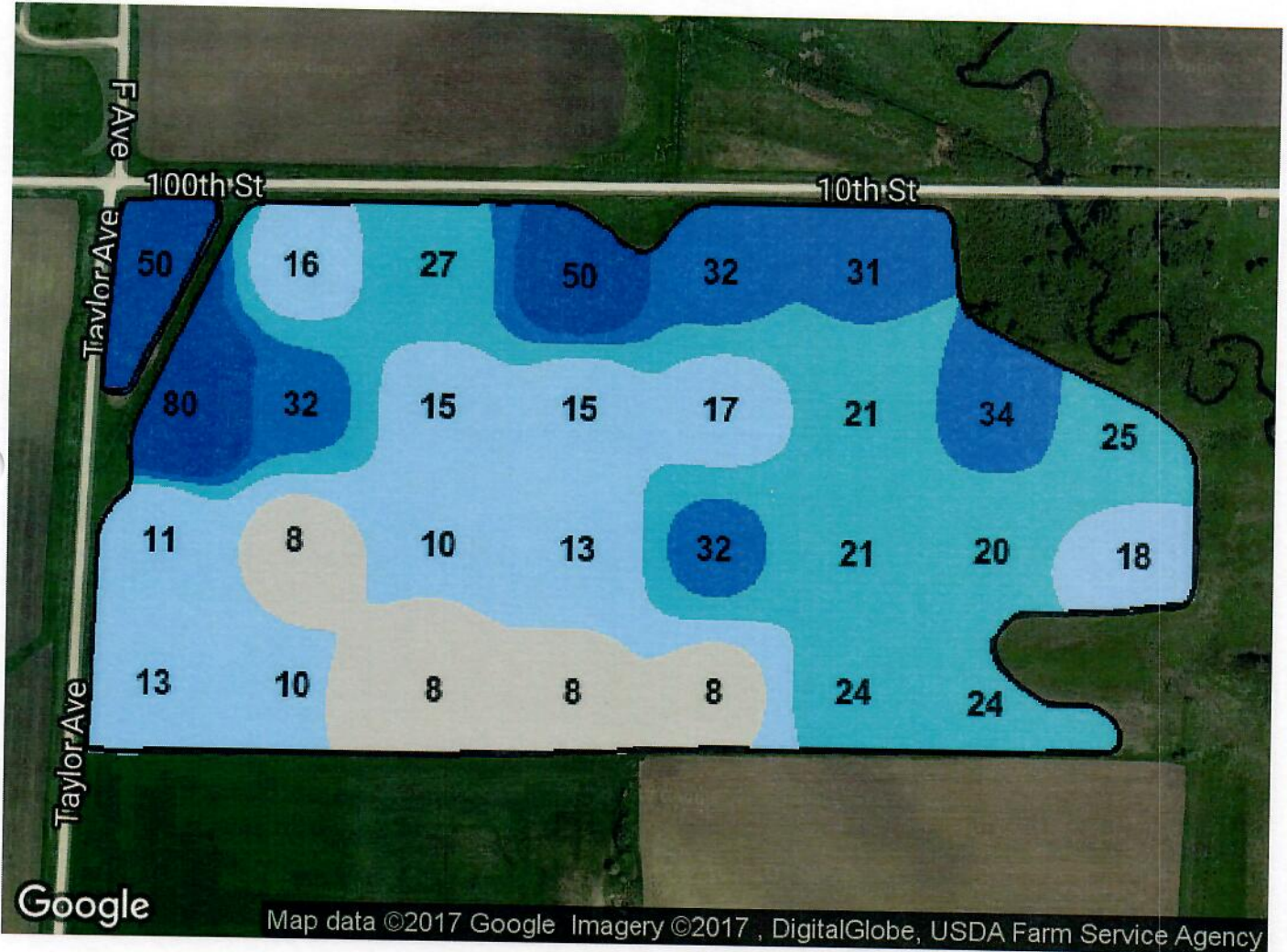


Data Analysis Report

Location: TRFS Elkader
Customer: Soules Farms
Date: 2017-11-29

Farm: Roepke
Field: Roepke
Acres: 67.96

Phosphorus (ppm)

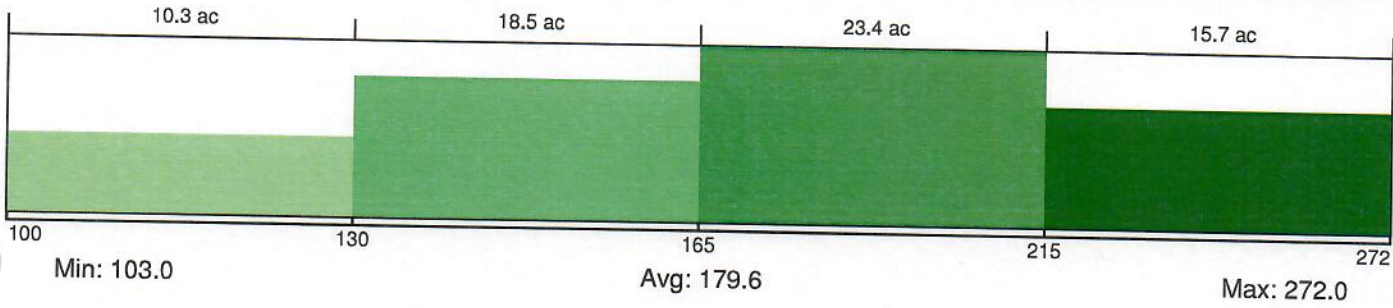


Data Analysis Report

Location: TRFS Elkader
Customer: Soules Farms
Date: 2017-11-29

Farm: Roepke
Field: Roepke
Acres: 67.96

Potassium (ppm)

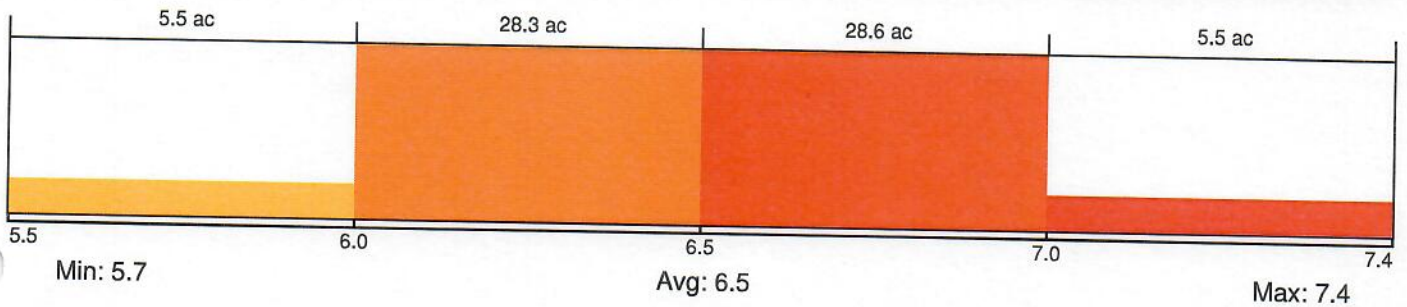
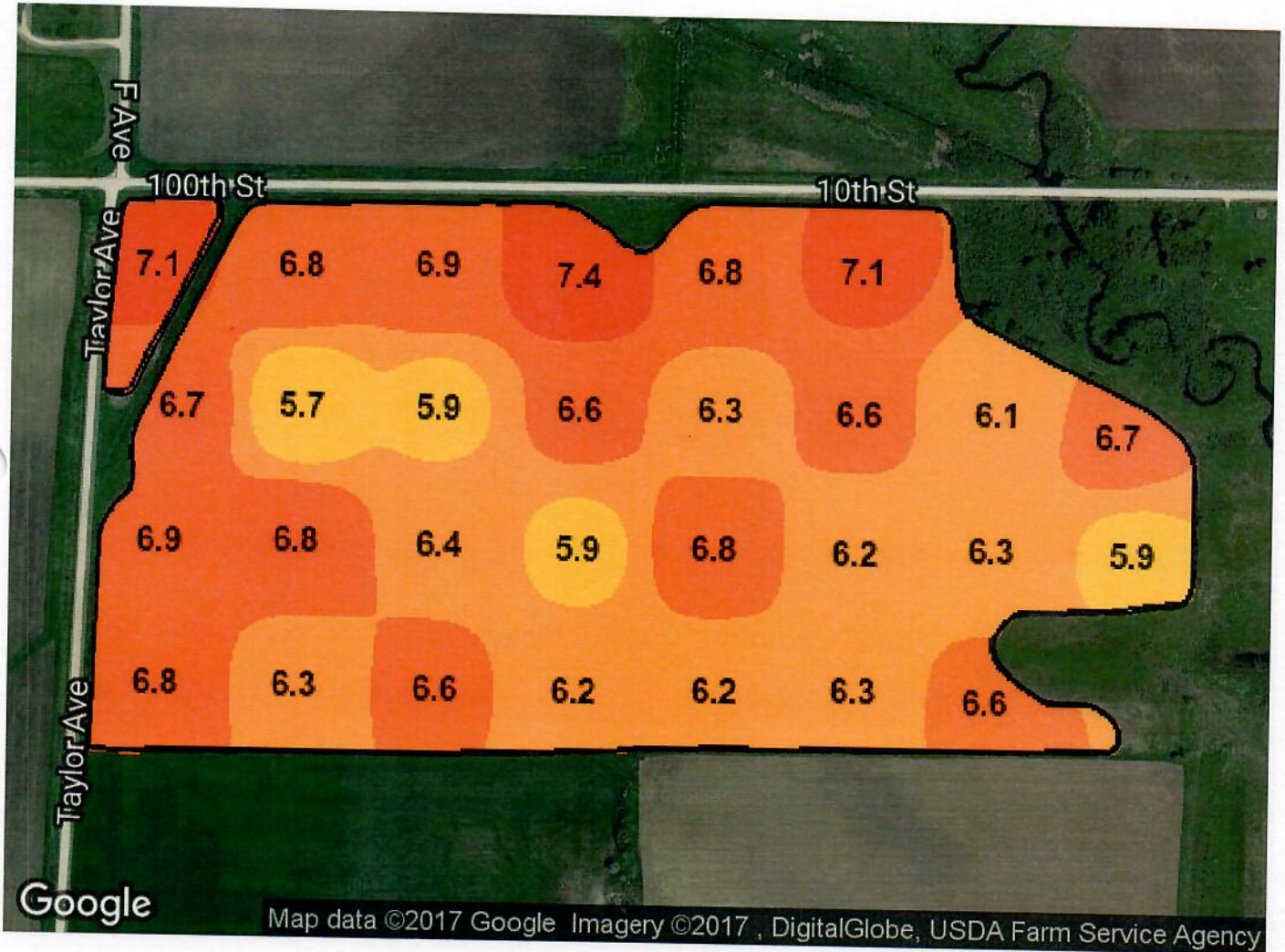


Data Analysis Report

Location: TRFS Elkader
Customer: Soules Farms
Date: 2017-11-29

Farm: Roepke
Field: Roepke
Acres: 67.96

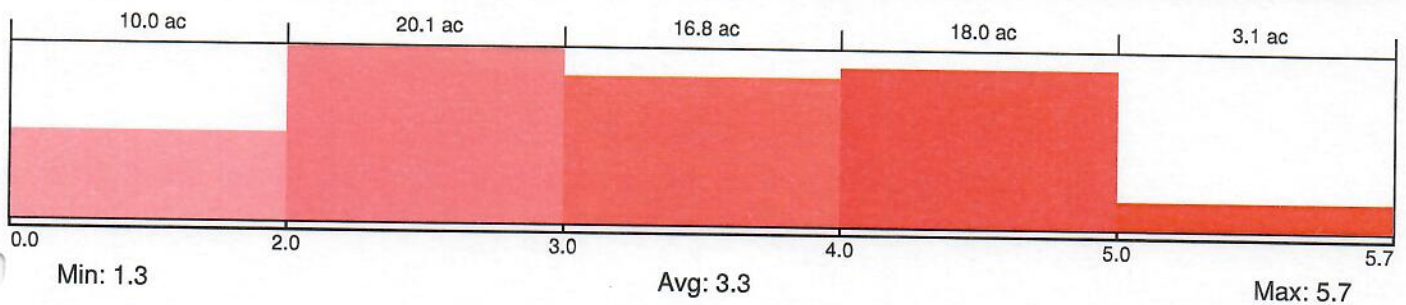
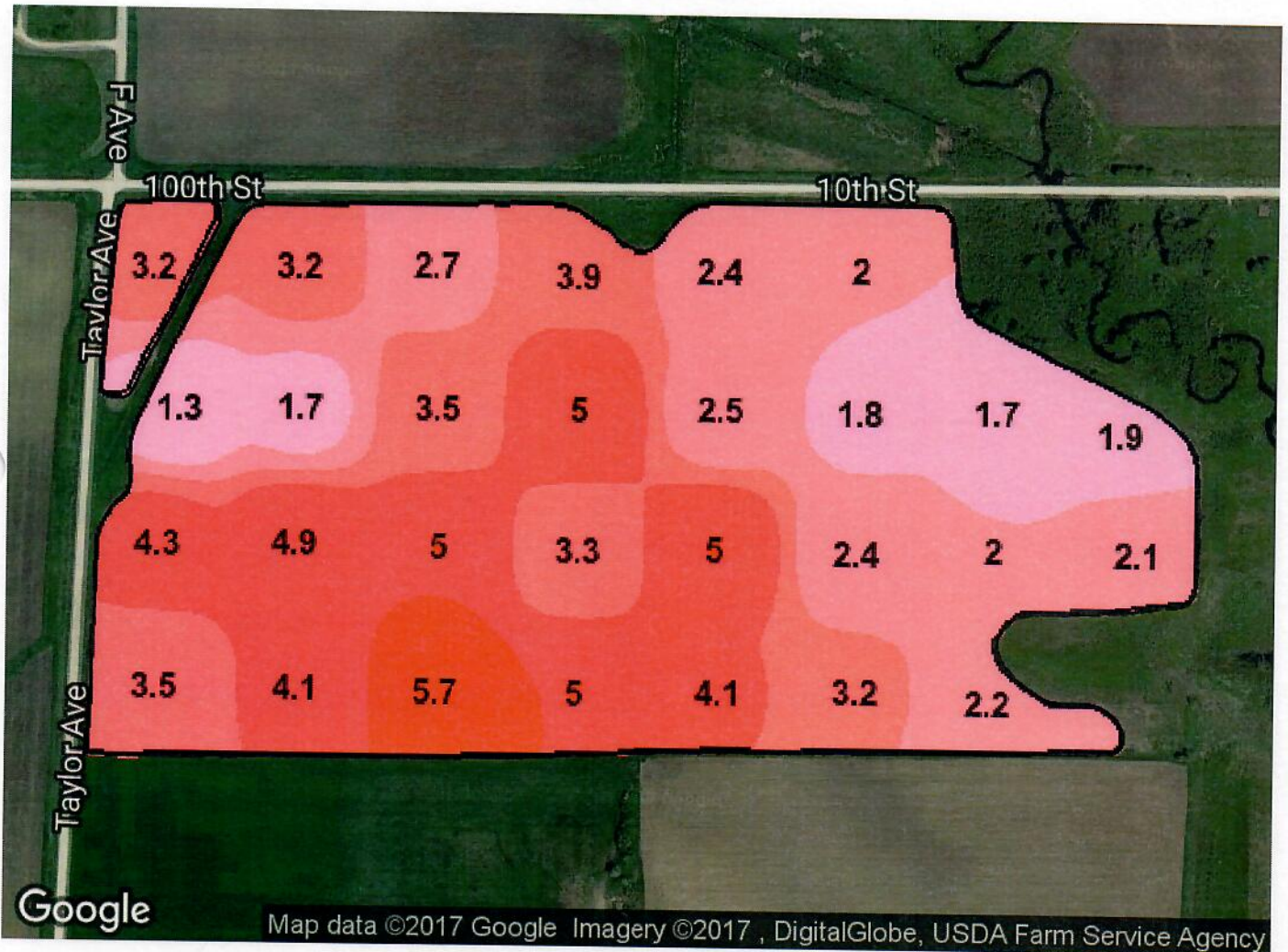
pH



Location: TRFS Elkader
Customer: Soules Farms
Date: 2017-11-29

Farm: Roepke
Field: Roepke
Acres: 67.96

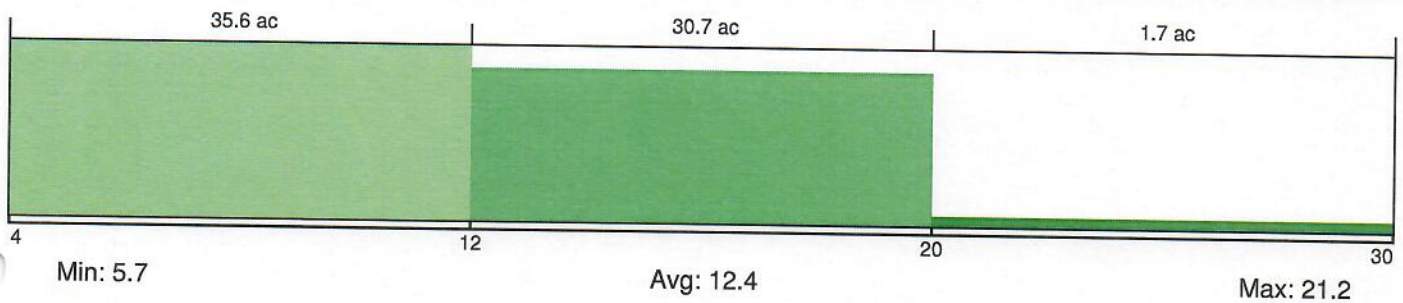
Organic Matter



Location: TRFS Elkader
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Date: 2017-11-29

Farm: Roepke
Field: Roepke
Acres: 67.96

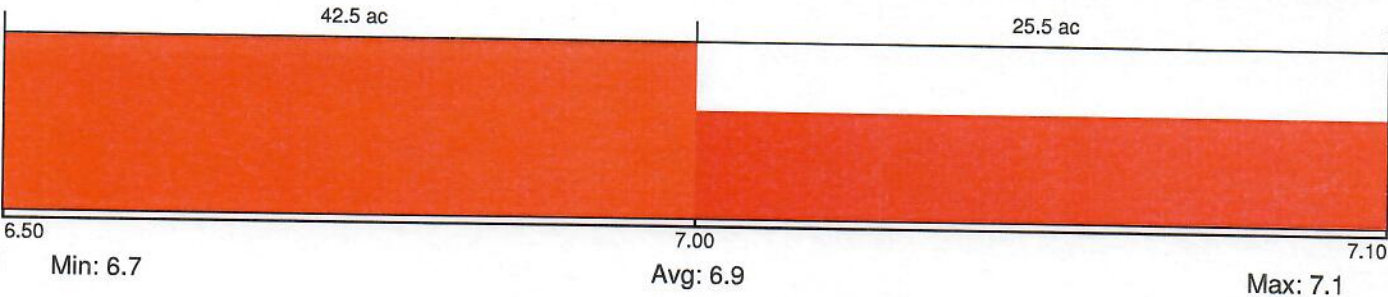
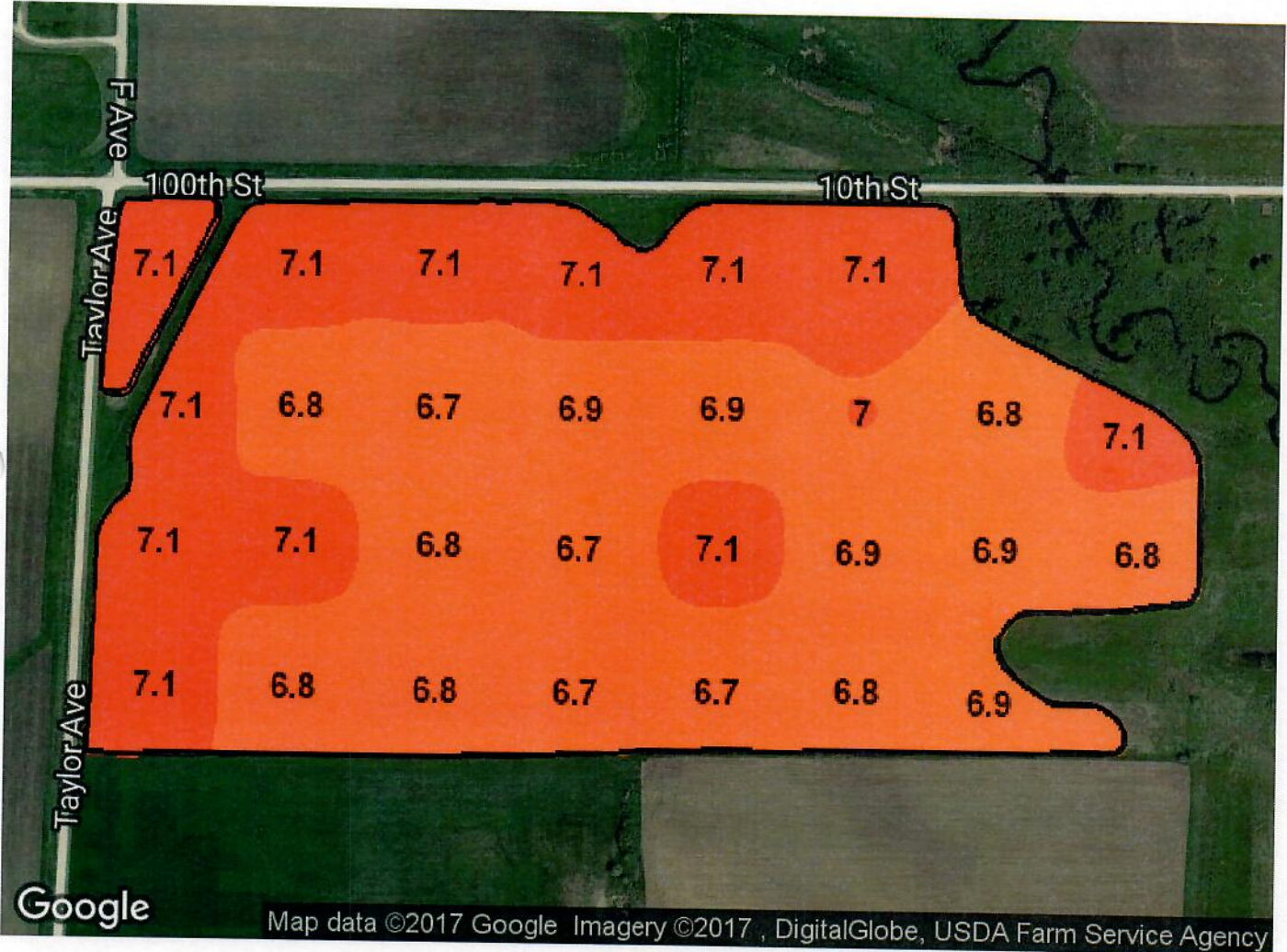
Cation Exchange Capacity



Location: TRFS Elkader
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Date: 2017-11-29

Farm: Roepke
Field: Roepke
Acres: 67.96

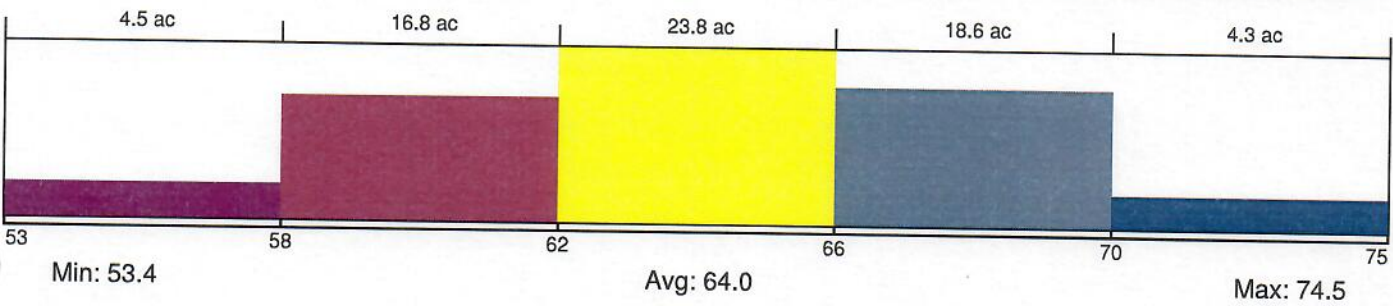
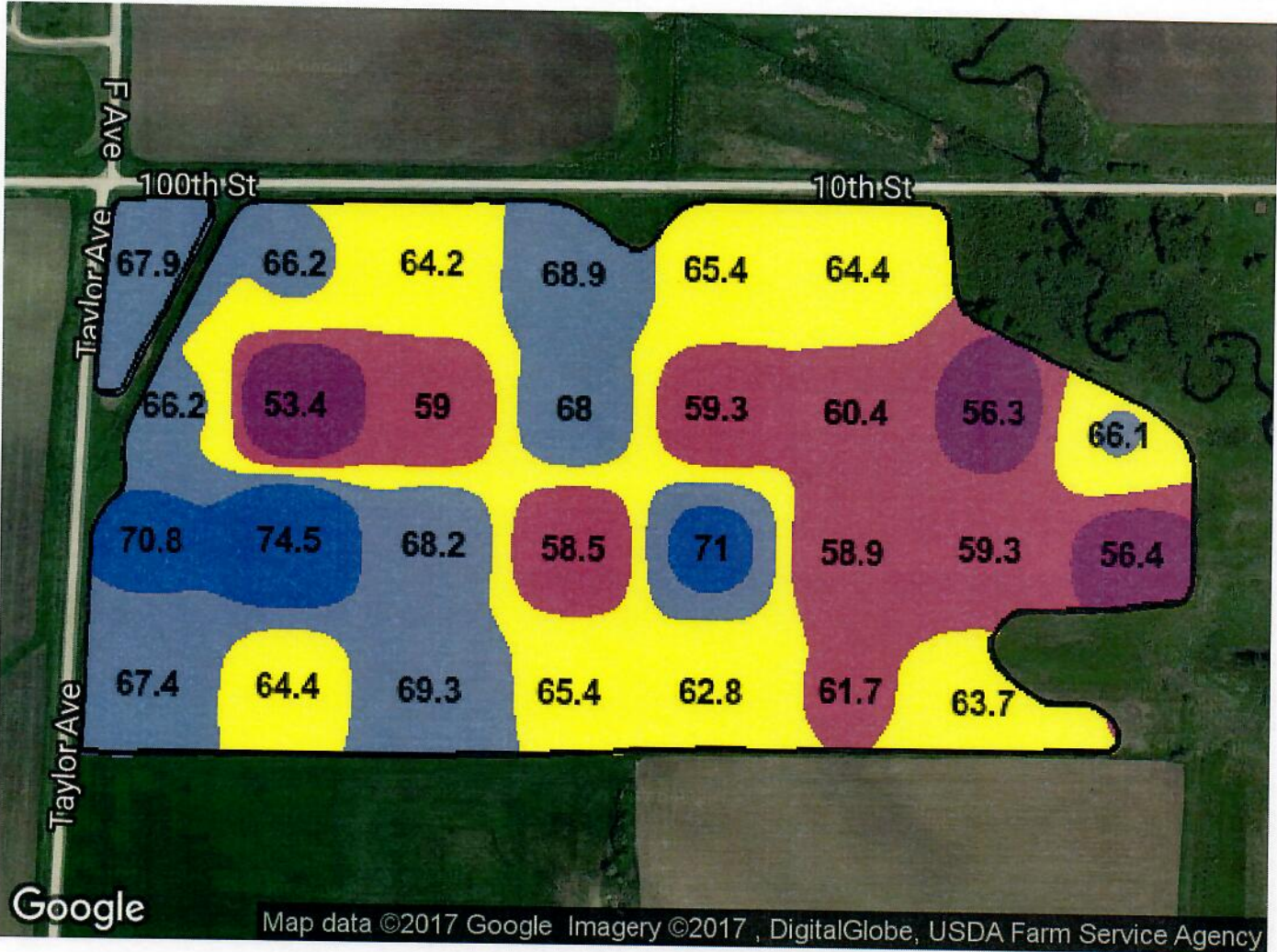
Buffer pH



Location: TRFS Elkader
Customer: Soules Farms
Date: 2017-11-29

Farm: Roepke
Field: Roepke
Acres: 67.96

Calcium Base Saturation



Location: TRFS Elkader
Customer: Soules Farms
Date: 2017-11-29

Farm: Roepke
Field: Roepke
Acres: 67.96

Magnesium Base Saturation

