

Ag Testing - Consulting

Account No. : 19356

Soil Analysis Report

DANIELS, JUDY
SOIL SAGE LLC
8323 DEPEW WAY
ARVADA

CO 80003

Invoice No. : 1431852
Date Received : 09/19/2024
Date Reported : 09/23/2024

Results For : CIV
Location : CPW

Lab No. : 98672 Depth : 0 - 4
ID : CIV-305223-SOIL-1

1:1 Soil pH	7.7
Soluble Salts 1:1, mmho/cm	0.75
Excess Lime Rating	HIGH
Organic Matter LOI, %	2.1
Nitrate-N KCl, ppm N	58.9
Nitrate-N, lbs N / Acre	71
Phosphorus M3, ppm P	81
Potassium NH ₄ OAc, ppm K	301
Sulfate M-3, ppm S	186.2
Zinc DTPA, ppm Zn	2.37
Iron DTPA, ppm Fe	6.4
Manganese DTPA, ppm Mn	1.5
Copper DTPA, ppm Cu	0.75
Calcium NH ₄ OAc, ppm Ca	4573
Magnesium NH ₄ OAc, ppm Mg	614
Sodium NH ₄ OAc, ppm Na	109
Chloride Ca-NO ₃ , ppm Cl	54.0
Boron Hot Water, ppm B	1.36
Calcium Carbonate, %	3.1

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
29.2	0	3	77	18	2

Saturated Soil Paste Analysis (SAR)

Saturation, %	36
Sat Paste pH	7.6
Sat Paste ECe, mmho/cm	3.87
HCO ₃ , ppm	165
Cl, ppm	127
Ca, ppm	579
Mg, ppm	178
Na, ppm	125
S, ppm	503.3

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**Results For : CIV
Location : CPW**

Sodium Adsorption Ratio 1.2

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	52	20	28

You can find a copy of our SHA

Guide at

<https://www.wardlab.com/resources/>

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Results For : CIV
Location : CPW

Lab No. : 98673 Depth : 0 - 4
ID : CIV-305671-SOIL-2

1:1 Soil pH	7.8
Soluble Salts 1:1, mmho/cm	0.50
Excess Lime Rating	HIGH
Organic Matter LOI, %	1.8
Nitrate-N KCl, ppm N	40.3
Nitrate-N, lbs N / Acre	48
Phosphorus M3, ppm P	91
Potassium NH ₄ OAc, ppm K	282
Sulfate M-3, ppm S	114.8
Zinc DTPA, ppm Zn	2.56
Iron DTPA, ppm Fe	6.7
Manganese DTPA, ppm Mn	2.7
Copper DTPA, ppm Cu	0.75
Calcium NH ₄ OAc, ppm Ca	4335
Magnesium NH ₄ OAc, ppm Mg	493
Sodium NH ₄ OAc, ppm Na	68
Chloride Ca-NO ₃ , ppm Cl	27.5
Boron Hot Water, ppm B	1.02
Calcium Carbonate, %	2.6

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
26.8	0	3	81	15	1

Saturated Soil Paste Analysis (SAR)

Saturation, %	30
Sat Paste pH	7.6
Sat Paste ECe, mmho/cm	2.44
HCO ₃ , ppm	174
Cl, ppm	57
Ca, ppm	340
Mg, ppm	93
Na, ppm	84
S, ppm	257.6

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Sodium Adsorption Ratio 1.0

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	58	16	26

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Results For : CIV
 Location : CPW

Lab No. : 98674 Depth : 0 - 4
 ID : CIV-331251-SOIL-3

1:1 Soil pH	7.9
Soluble Salts 1:1, mmho/cm	0.55
Excess Lime Rating	HIGH
Organic Matter LOI, %	1.8
Nitrate-N KCl, ppm N	20.8
Nitrate-N, lbs N / Acre	25
Phosphorus M3, ppm P	57
Potassium NH ₄ OAc, ppm K	270
Sulfate M-3, ppm S	161.4
Zinc DTPA, ppm Zn	1.73
Iron DTPA, ppm Fe	5.1
Manganese DTPA, ppm Mn	1.3
Copper DTPA, ppm Cu	0.56
Calcium NH ₄ OAc, ppm Ca	4541
Magnesium NH ₄ OAc, ppm Mg	565
Sodium NH ₄ OAc, ppm Na	90
Chloride Ca-NO ₃ , ppm Cl	48.1
Boron Hot Water, ppm B	0.94
Calcium Carbonate, %	3.2

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
28.5	0	2	80	17	1

Saturated Soil Paste Analysis (SAR)

Saturation, %	38
Sat Paste pH	7.7
Sat Paste ECe, mmho/cm	2.82
HCO ₃ , ppm	165
Cl, ppm	98
Ca, ppm	411
Mg, ppm	121
Na, ppm	108
S, ppm	405.7

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Sodium Adsorption Ratio 1.2

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	56	18	26

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Results For : CIV
Location : CPW

Lab No. : 98675 Depth : 0 - 8
ID : CIV-331380-SOIL-4

1:1 Soil pH	8.1
Soluble Salts 1:1, mmho/cm	0.20
Excess Lime Rating	HIGH
Organic Matter LOI, %	2.5
Nitrate-N KCl, ppm N	28.8
Nitrate-N, lbs N / Acre	69
Phosphorus M3, ppm P	43
Potassium NH ₄ OAc, ppm K	244
Sulfate M-3, ppm S	65.1
Zinc DTPA, ppm Zn	1.66
Iron DTPA, ppm Fe	3.9
Manganese DTPA, ppm Mn	0.9
Copper DTPA, ppm Cu	3.21
Calcium NH ₄ OAc, ppm Ca	4704
Magnesium NH ₄ OAc, ppm Mg	539
Sodium NH ₄ OAc, ppm Na	86
Chloride Ca-NO ₃ , ppm Cl	16.0
Boron Hot Water, ppm B	0.83
Calcium Carbonate, %	2.7

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
29.0	0	2	81	15	1

Saturated Soil Paste Analysis (SAR)

Saturation, %	38
Sat Paste pH	7.8
Sat Paste ECe, mmho/cm	1.15
HCO ₃ , ppm	150
Cl, ppm	30
Ca, ppm	125
Mg, ppm	30
Na, ppm	59
S, ppm	36.6

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Sodium Adsorption Ratio 1.2

Soil Texture	Sand, %	Silt, %	Clay, %
Clay Loam	26	40	34

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Results For : CIV
Location : CPW

Lab No. : 98676 Depth : 0 - 4
ID : CIV-331381-SOIL-5

1:1 Soil pH	7.9
Soluble Salts 1:1, mmho/cm	0.40
Excess Lime Rating	HIGH
Organic Matter LOI, %	1.8
Nitrate-N KCl, ppm N	32.2
Nitrate-N, lbs N / Acre	39
Phosphorus M3, ppm P	70
Potassium NH ₄ OAc, ppm K	261
Sulfate M-3, ppm S	130.3
Zinc DTPA, ppm Zn	1.87
Iron DTPA, ppm Fe	5.7
Manganese DTPA, ppm Mn	2.0
Copper DTPA, ppm Cu	1.22
Calcium NH ₄ OAc, ppm Ca	4197
Magnesium NH ₄ OAc, ppm Mg	482
Sodium NH ₄ OAc, ppm Na	97
Chloride Ca-NO ₃ , ppm Cl	35.0
Boron Hot Water, ppm B	1.06
Calcium Carbonate, %	2.2

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
26.1	0	3	80	15	2

Saturated Soil Paste Analysis (SAR)

Saturation, %	30
Sat Paste pH	7.7
Sat Paste ECe, mmho/cm	2.27
HCO ₃ , ppm	148
Cl, ppm	65
Ca, ppm	288
Mg, ppm	79
Na, ppm	107
S, ppm	245.3

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Results For : CIV
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Sodium Adsorption Ratio			1.4
Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	60	18	22

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Results For : CIV
Location : CPW

Lab No. : 98677 Depth : 0 - 4
ID : CIV-331381-TB-SOIL-6

1:1 Soil pH	7.8
Soluble Salts 1:1, mmho/cm	0.74
Excess Lime Rating	HIGH
Organic Matter LOI, %	2.1
Nitrate-N KCl, ppm N	50.6
Nitrate-N, lbs N / Acre	61
Phosphorus M3, ppm P	90
Potassium NH ₄ OAc, ppm K	330
Sulfate M-3, ppm S	297.4
Zinc DTPA, ppm Zn	2.03
Iron DTPA, ppm Fe	5.3
Manganese DTPA, ppm Mn	2.1
Copper DTPA, ppm Cu	0.88
Calcium NH ₄ OAc, ppm Ca	4770
Magnesium NH ₄ OAc, ppm Mg	640
Sodium NH ₄ OAc, ppm Na	173
Chloride Ca-NO ₃ , ppm Cl	133.0
Boron Hot Water, ppm B	1.33
Calcium Carbonate, %	3.7

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
30.8	0	3	77	17	2

Saturated Soil Paste Analysis (SAR)

Saturation, %	41
Sat Paste pH	7.2
Sat Paste E _{Ce} , mmho/cm	35.05
HCO ₃ , ppm	110
Cl, ppm	9310
Ca, ppm	2219
Mg, ppm	634
Na, ppm	258
S, ppm	422.5

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Sodium Adsorption Ratio 1.2

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	52	18	30

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Results For : CIV
Location : CPW

Lab No. : 98678 Depth : 0 - 4
ID : CIV-331413-SOIL-7

1:1 Soil pH	7.8
Soluble Salts 1:1, mmho/cm	0.57
Excess Lime Rating	HIGH
Organic Matter LOI, %	2.2
Nitrate-N KCl, ppm N	76.1
Nitrate-N, lbs N / Acre	91
Phosphorus M3, ppm P	75
Potassium NH ₄ OAc, ppm K	260
Sulfate M-3, ppm S	220.5
Zinc DTPA, ppm Zn	2.03
Iron DTPA, ppm Fe	6.4
Manganese DTPA, ppm Mn	3.6
Copper DTPA, ppm Cu	0.85
Calcium NH ₄ OAc, ppm Ca	4780
Magnesium NH ₄ OAc, ppm Mg	688
Sodium NH ₄ OAc, ppm Na	111
Chloride Ca-NO ₃ , ppm Cl	52.1
Boron Hot Water, ppm B	1.32
Calcium Carbonate, %	3.0

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
30.8	0	2	77	19	2

Saturated Soil Paste Analysis (SAR)

Saturation, %	36
Sat Paste pH	7.7
Sat Paste ECe, mmho/cm	3.35
HCO ₃ , ppm	142
Cl, ppm	138
Ca, ppm	511
Mg, ppm	150
Na, ppm	120
S, ppm	394.9

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Sodium Adsorption Ratio 1.2

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	50	20	30

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Results For : CIV
 Location : CPW

Lab No. : 98679 Depth : 0 - 4
 ID : CIV-331413-TB-SOIL-8

1:1 Soil pH	7.8
Soluble Salts 1:1, mmho/cm	0.45
Excess Lime Rating	HIGH
Organic Matter LOI, %	2.1
Nitrate-N KCl, ppm N	42.1
Nitrate-N, lbs N / Acre	50
Phosphorus M3, ppm P	73
Potassium NH ₄ OAc, ppm K	282
Sulfate M-3, ppm S	189.2
Zinc DTPA, ppm Zn	1.72
Iron DTPA, ppm Fe	6.8
Manganese DTPA, ppm Mn	3.7
Copper DTPA, ppm Cu	0.82
Calcium NH ₄ OAc, ppm Ca	4957
Magnesium NH ₄ OAc, ppm Mg	663
Sodium NH ₄ OAc, ppm Na	74
Chloride Ca-NO ₃ , ppm Cl	25.4
Boron Hot Water, ppm B	1.29
Calcium Carbonate, %	3.1

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
31.4	0	2	79	18	1

Saturated Soil Paste Analysis (SAR)

Saturation, %	36
Sat Paste pH	7.7
Sat Paste E _{Ce} , mmho/cm	3.19
HCO ₃ , ppm	150
Cl, ppm	65
Ca, ppm	525
Mg, ppm	147
Na, ppm	86
S, ppm	467.5

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Sodium Adsorption Ratio 0.9

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	50	18	32

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Results For : CIV
Location : CPW

Lab No. : 98680 Depth : 0 - 8
ID : CIV-331414-SOIL-9

1:1 Soil pH	8.4
Soluble Salts 1:1, mmho/cm	0.86
Excess Lime Rating	LOW
Organic Matter LOI, %	2.1
Nitrate-N KCl, ppm N	36.2
Nitrate-N, lbs N / Acre	87
Phosphorus M3, ppm P	87
Potassium NH ₄ OAc, ppm K	365
Sulfate M-3, ppm S	322.5
Zinc DTPA, ppm Zn	5.22
Iron DTPA, ppm Fe	8.1
Manganese DTPA, ppm Mn	5.3
Copper DTPA, ppm Cu	6.18
Calcium NH ₄ OAc, ppm Ca	3459
Magnesium NH ₄ OAc, ppm Mg	478
Sodium NH ₄ OAc, ppm Na	1507
Chloride Ca-NO ₃ , ppm Cl	89.2
Boron Hot Water, ppm B	3.97
Calcium Carbonate, %	0.8

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
28.8	0	3	60	14	23

Saturated Soil Paste Analysis (SAR)

Saturation, %	42
Sat Paste pH	8.1
Sat Paste E _{Ce} , mmho/cm	5.01
HCO ₃ , ppm	252
Cl, ppm	195
Ca, ppm	123
Mg, ppm	34
Na, ppm	1047
S, ppm	620.1

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Sodium Adsorption Ratio 21.5

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	46	24	30

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Results For : CIV
Location : CPW

Lab No. : 98681 Depth : 0 - 8
ID : CIV-331414-TBSOIL-10

1:1 Soil pH	8.3
Soluble Salts 1:1, mmho/cm	0.21
Excess Lime Rating	HIGH
Organic Matter LOI, %	1.4
Nitrate-N KCl, ppm N	14.2
Nitrate-N, lbs N / Acre	34
Phosphorus M3, ppm P	94
Potassium NH ₄ OAc, ppm K	351
Sulfate M-3, ppm S	61.4
Zinc DTPA, ppm Zn	1.91
Iron DTPA, ppm Fe	9.3
Manganese DTPA, ppm Mn	1.0
Copper DTPA, ppm Cu	0.78
Calcium NH ₄ OAc, ppm Ca	3856
Magnesium NH ₄ OAc, ppm Mg	444
Sodium NH ₄ OAc, ppm Na	233
Chloride Ca-NO ₃ , ppm Cl	73.7
Boron Hot Water, ppm B	0.77
Calcium Carbonate, %	2.9

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
24.9	0	4	77	15	4

Saturated Soil Paste Analysis (SAR)

Saturation, %	36
Sat Paste pH	7.9
Sat Paste ECe, mmho/cm	1.75
HCO ₃ , ppm	144
Cl, ppm	167
Ca, ppm	103
Mg, ppm	31
Na, ppm	222
S, ppm	119.4

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Sodium Adsorption Ratio 4.9

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	60	16	24

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Results For : CIV
 Location : CPW

Lab No. : 98682 Depth : 0 - 8
 ID : CIV-331805-SOIL-11

1:1 Soil pH	8.1
Soluble Salts 1:1, mmho/cm	0.32
Excess Lime Rating	LOW
Organic Matter LOI, %	2.1
Nitrate-N KCl, ppm N	61.1
Nitrate-N, lbs N / Acre	147
Phosphorus M3, ppm P	378
Potassium NH ₄ OAc, ppm K	1232
Sulfate M-3, ppm S	78.7
Zinc DTPA, ppm Zn	4.54
Iron DTPA, ppm Fe	7.6
Manganese DTPA, ppm Mn	2.0
Copper DTPA, ppm Cu	2.47
Calcium NH ₄ OAc, ppm Ca	2569
Magnesium NH ₄ OAc, ppm Mg	398
Sodium NH ₄ OAc, ppm Na	179
Chloride Ca-NO ₃ , ppm Cl	104.0
Boron Hot Water, ppm B	1.36
Calcium Carbonate, %	0.7

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
20.1	0	16	64	16	4

Saturated Soil Paste Analysis (SAR)

Saturation, %	28
Sat Paste pH	7.8
Sat Paste E _{Ce} , mmho/cm	3.21
HCO ₃ , ppm	286
Cl, ppm	234
Ca, ppm	142
Mg, ppm	60
Na, ppm	238
S, ppm	140.1

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Sodium Adsorption Ratio 4.2

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	66	14	20

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Results For : CIV
Location : CPW

Lab No. : 98683 Depth : 0 - 8
ID : CIV-331805-TB-SOIL-12

1:1 Soil pH	8.0
Soluble Salts 1:1, mmho/cm	0.51
Excess Lime Rating	LOW
Organic Matter LOI, %	1.3
Nitrate-N KCl, ppm N	25.0
Nitrate-N, lbs N / Acre	60
Phosphorus M3, ppm P	116
Potassium NH ₄ OAc, ppm K	423
Sulfate M-3, ppm S	125.3
Zinc DTPA, ppm Zn	1.98
Iron DTPA, ppm Fe	13.7
Manganese DTPA, ppm Mn	5.1
Copper DTPA, ppm Cu	1.13
Calcium NH ₄ OAc, ppm Ca	4002
Magnesium NH ₄ OAc, ppm Mg	490
Sodium NH ₄ OAc, ppm Na	259
Chloride Ca-NO ₃ , ppm Cl	216.0
Boron Hot Water, ppm B	0.96
Calcium Carbonate, %	2.6

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
26.3	0	4	76	16	4

Saturated Soil Paste Analysis (SAR)

Saturation, %	35
Sat Paste pH	7.9
Sat Paste ECe, mmho/cm	3.27
HCO ₃ , ppm	130
Cl, ppm	436
Ca, ppm	259
Mg, ppm	80
Na, ppm	299
S, ppm	232.9

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Soil Analysis Report

DANIELS, JUDY
SOIL SAGE LLC
8323 DEPEW WAY
ARVADA

CO 80003

Invoice No. : 1431852
Date Received : 09/19/2024
Date Reported : 09/23/2024

Results For : CIV
Location : CPW

Sodium Adsorption Ratio 4.1

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	58	18	24

Ag Testing - Consulting

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Soil Analysis Report

DANIELS, JUDY
SOIL SAGE LLC
8323 DEPEW WAY
ARVADA

CO 80003

Invoice No. : 1431852
Date Received : 09/19/2024
Date Reported : 09/23/2024

Results For : CIV
Location : CPW

Lab No. : 98684 Depth : 0 - 8
ID : CIV-333761-SOIL-13

1:1 Soil pH	8.1
Soluble Salts 1:1, mmho/cm	0.52
Excess Lime Rating	LOW
Organic Matter LOI, %	1.3
Nitrate-N KCl, ppm N	20.6
Nitrate-N, lbs N / Acre	49
Phosphorus M3, ppm P	130
Potassium NH ₄ OAc, ppm K	427
Sulfate M-3, ppm S	65.9
Zinc DTPA, ppm Zn	3.07
Iron DTPA, ppm Fe	12.8
Manganese DTPA, ppm Mn	2.9
Copper DTPA, ppm Cu	1.18
Calcium NH ₄ OAc, ppm Ca	3879
Magnesium NH ₄ OAc, ppm Mg	462
Sodium NH ₄ OAc, ppm Na	210
Chloride Ca-NO ₃ , ppm Cl	80.9
Boron Hot Water, ppm B	0.91
Calcium Carbonate, %	2.4

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
25.3	0	4	77	15	4

Saturated Soil Paste Analysis (SAR)

Saturation, %	34
Sat Paste pH	7.8
Sat Paste E _{Ce} , mmho/cm	2.04
HCO ₃ , ppm	162
Cl, ppm	199
Ca, ppm	153
Mg, ppm	45
Na, ppm	215
S, ppm	139.5

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Results For : CIV
Location : CPW

Sodium Adsorption Ratio 3.9

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	60	16	24

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Results For : CIV
Location : CPW

Lab No. : 98685 Depth : 0 - 8
ID : CIV-415154-SOIL-14

1:1 Soil pH	8.1
Soluble Salts 1:1, mmho/cm	0.49
Excess Lime Rating	LOW
Organic Matter LOI, %	1.2
Nitrate-N KCl, ppm N	22.1
Nitrate-N, lbs N / Acre	53
Phosphorus M3, ppm P	68
Potassium NH ₄ OAc, ppm K	304
Sulfate M-3, ppm S	74.6
Zinc DTPA, ppm Zn	1.39
Iron DTPA, ppm Fe	10.0
Manganese DTPA, ppm Mn	1.1
Copper DTPA, ppm Cu	1.14
Calcium NH ₄ OAc, ppm Ca	3842
Magnesium NH ₄ OAc, ppm Mg	436
Sodium NH ₄ OAc, ppm Na	173
Chloride Ca-NO ₃ , ppm Cl	69.5
Boron Hot Water, ppm B	0.89
Calcium Carbonate, %	1.3

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
24.4	0	3	79	15	3

Saturated Soil Paste Analysis (SAR)

Saturation, %	30
Sat Paste pH	7.9
Sat Paste ECe, mmho/cm	1.98
HCO ₃ , ppm	133
Cl, ppm	177
Ca, ppm	181
Mg, ppm	48
Na, ppm	175
S, ppm	140.7

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Results For : CIV
Location : CPW

Sodium Adsorption Ratio 3.0

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	66	14	20

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Results For : CIV
 Location : CPW

Lab No. : 98686 Depth : 0 - 8
 ID : CIV-415157-SOIL-15

1:1 Soil pH	8.0
Soluble Salts 1:1, mmho/cm	0.79
Excess Lime Rating	HIGH
Organic Matter LOI, %	1.4
Nitrate-N KCl, ppm N	25.0
Nitrate-N, lbs N / Acre	60
Phosphorus M3, ppm P	121
Potassium NH ₄ OAc, ppm K	400
Sulfate M-3, ppm S	111.9
Zinc DTPA, ppm Zn	1.87
Iron DTPA, ppm Fe	8.8
Manganese DTPA, ppm Mn	1.2
Copper DTPA, ppm Cu	0.99
Calcium NH ₄ OAc, ppm Ca	4340
Magnesium NH ₄ OAc, ppm Mg	543
Sodium NH ₄ OAc, ppm Na	192
Chloride Ca-NO ₃ , ppm Cl	75.8
Boron Hot Water, ppm B	1.01
Calcium Carbonate, %	2.5

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
28.1	0	4	77	16	3

Saturated Soil Paste Analysis (SAR)

Saturation, %	32
Sat Paste pH	7.8
Sat Paste ECe, mmho/cm	2.49
HCO ₃ , ppm	117
Cl, ppm	179
Ca, ppm	241
Mg, ppm	69
Na, ppm	203
S, ppm	234.1

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Results For : CIV
Location : CPW

Sodium Adsorption Ratio 3.0

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	56	16	28

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Results For : CIV
Location : CPW

Lab No. : 98687 Depth : 0 - 8
ID : CIV-423850-SOIL-16

1:1 Soil pH	8.2
Soluble Salts 1:1, mmho/cm	0.47
Excess Lime Rating	LOW
Organic Matter LOI, %	1.3
Nitrate-N KCl, ppm N	14.0
Nitrate-N, lbs N / Acre	34
Phosphorus M3, ppm P	149
Potassium NH ₄ OAc, ppm K	348
Sulfate M-3, ppm S	51.7
Zinc DTPA, ppm Zn	2.63
Iron DTPA, ppm Fe	15.3
Manganese DTPA, ppm Mn	2.9
Copper DTPA, ppm Cu	1.30
Calcium NH ₄ OAc, ppm Ca	3771
Magnesium NH ₄ OAc, ppm Mg	441
Sodium NH ₄ OAc, ppm Na	193
Chloride Ca-NO ₃ , ppm Cl	79.5
Boron Hot Water, ppm B	1.00
Calcium Carbonate, %	2.3

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
24.3	0	4	78	15	3

Saturated Soil Paste Analysis (SAR)

Saturation, %	39
Sat Paste pH	7.9
Sat Paste ECe, mmho/cm	1.48
HCO ₃ , ppm	167
Cl, ppm	152
Ca, ppm	93
Mg, ppm	29
Na, ppm	181
S, ppm	89.3

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Results For : CIV
Location : CPW

Sodium Adsorption Ratio 4.2

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	62	14	24

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Results For : CIV
Location : CPW

Lab No. : 98688 Depth : 0 - 8
ID : CIV-447280-SOIL-17

1:1 Soil pH	7.7
Soluble Salts 1:1, mmho/cm	1.16
Excess Lime Rating	LOW
Organic Matter LOI, %	1.9
Nitrate-N KCl, ppm N	103.3
Nitrate-N, lbs N / Acre	248
Phosphorus M3, ppm P	126
Potassium NH ₄ OAc, ppm K	386
Sulfate M-3, ppm S	100.0
Zinc DTPA, ppm Zn	3.48
Iron DTPA, ppm Fe	6.1
Manganese DTPA, ppm Mn	2.6
Copper DTPA, ppm Cu	0.75
Calcium NH ₄ OAc, ppm Ca	4122
Magnesium NH ₄ OAc, ppm Mg	506
Sodium NH ₄ OAc, ppm Na	133
Chloride Ca-NO ₃ , ppm Cl	224.0
Boron Hot Water, ppm B	0.89
Calcium Carbonate, %	2.7

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
26.4	0	4	78	16	2

Saturated Soil Paste Analysis (SAR)

Saturation, %	33
Sat Paste pH	7.6
Sat Paste ECe, mmho/cm	4.39
HCO ₃ , ppm	170
Cl, ppm	430
Ca, ppm	493
Mg, ppm	136
Na, ppm	186
S, ppm	204.7

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Results For : CIV
Location : CPW

Sodium Adsorption Ratio 1.9

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	60	16	24

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Results For : CIV
 Location : CPW

Lab No. : 98689 Depth : 0 - 4
 ID : CIV-447290-SOIL-18

1:1 Soil pH	7.8
Soluble Salts 1:1, mmho/cm	1.89
Excess Lime Rating	HIGH
Organic Matter LOI, %	1.6
Nitrate-N KCl, ppm N	25.1
Nitrate-N, lbs N / Acre	30
Phosphorus M3, ppm P	87
Potassium NH ₄ OAc, ppm K	287
Sulfate M-3, ppm S	847.8
Zinc DTPA, ppm Zn	1.73
Iron DTPA, ppm Fe	5.4
Manganese DTPA, ppm Mn	1.6
Copper DTPA, ppm Cu	0.60
Calcium NH ₄ OAc, ppm Ca	4912
Magnesium NH ₄ OAc, ppm Mg	792
Sodium NH ₄ OAc, ppm Na	448
Chloride Ca-NO ₃ , ppm Cl	297.0
Boron Hot Water, ppm B	1.17
Calcium Carbonate, %	4.1

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
33.8	0	2	72	20	6

Saturated Soil Paste Analysis (SAR)

Saturation, %	33
Sat Paste pH	7.8
Sat Paste ECe, mmho/cm	6.43
HCO ₃ , ppm	198
Cl, ppm	578
Ca, ppm	630
Mg, ppm	260
Na, ppm	571
S, ppm	811.2

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Results For : CIV
Location : CPW

Sodium Adsorption Ratio 4.8

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	56	16	28

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Results For : CIV
Location : CPW

Lab No. : 98690 Depth : 0 - 8
ID : CIV-ROAD1-SOIL-19

1:1 Soil pH	8.1
Soluble Salts 1:1, mmho/cm	1.04
Excess Lime Rating	LOW
Organic Matter LOI, %	1.6
Nitrate-N KCl, ppm N	33.8
Nitrate-N, lbs N / Acre	81
Phosphorus M3, ppm P	295
Potassium NH ₄ OAc, ppm K	953
Sulfate M-3, ppm S	178.7
Zinc DTPA, ppm Zn	3.47
Iron DTPA, ppm Fe	11.1
Manganese DTPA, ppm Mn	1.5
Copper DTPA, ppm Cu	1.13
Calcium NH ₄ OAc, ppm Ca	3729
Magnesium NH ₄ OAc, ppm Mg	470
Sodium NH ₄ OAc, ppm Na	210
Chloride Ca-NO ₃ , ppm Cl	204.0
Boron Hot Water, ppm B	1.10
Calcium Carbonate, %	2.2

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
25.9	0	9	72	15	4

Saturated Soil Paste Analysis (SAR)

Saturation, %	32
Sat Paste pH	8.1
Sat Paste E _{Ce} , mmho/cm	4.22
HCO ₃ , ppm	137
Cl, ppm	450
Ca, ppm	332
Mg, ppm	111
Na, ppm	303
S, ppm	370.4

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Results For : CIV
Location : CPW

Sodium Adsorption Ratio			3.7
Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	58	16	26

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Results For : CIV
Location : CPW

Lab No. : 98691 Depth : 0 - 8
ID : CIV-ROAD4-SOIL-20

1:1 Soil pH	7.8
Soluble Salts 1:1, mmho/cm	1.23
Excess Lime Rating	HIGH
Organic Matter LOI, %	1.9
Nitrate-N KCl, ppm N	92.0
Nitrate-N, lbs N / Acre	221
Phosphorus M3, ppm P	91
Potassium NH ₄ OAc, ppm K	340
Sulfate M-3, ppm S	183.6
Zinc DTPA, ppm Zn	2.22
Iron DTPA, ppm Fe	5.9
Manganese DTPA, ppm Mn	4.8
Copper DTPA, ppm Cu	0.79
Calcium NH ₄ OAc, ppm Ca	4570
Magnesium NH ₄ OAc, ppm Mg	657
Sodium NH ₄ OAc, ppm Na	185
Chloride Ca-NO ₃ , ppm Cl	411.0
Boron Hot Water, ppm B	1.19
Calcium Carbonate, %	2.9

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
30.0	0	3	76	18	3

Saturated Soil Paste Analysis (SAR)

Saturation, %	31
Sat Paste pH	7.5
Sat Paste ECe, mmho/cm	6.34
HCO ₃ , ppm	147
Cl, ppm	863
Ca, ppm	767
Mg, ppm	227
Na, ppm	265
S, ppm	373.5

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Results For : CIV
Location : CPW

Sodium Adsorption Ratio 2.2

Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	54	16	30

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Results For : CIV
Location : CPW

Lab No. : 98692 Depth : 0 - 8
ID : CIV-ROAD5-SOIL-21

1:1 Soil pH	7.8
Soluble Salts 1:1, mmho/cm	1.15
Excess Lime Rating	HIGH
Organic Matter LOI, %	1.9
Nitrate-N KCl, ppm N	64.3
Nitrate-N, lbs N / Acre	154
Phosphorus M3, ppm P	105
Potassium NH ₄ OAc, ppm K	301
Sulfate M-3, ppm S	192.9
Zinc DTPA, ppm Zn	2.71
Iron DTPA, ppm Fe	6.9
Manganese DTPA, ppm Mn	3.2
Copper DTPA, ppm Cu	0.85
Calcium NH ₄ OAc, ppm Ca	4354
Magnesium NH ₄ OAc, ppm Mg	583
Sodium NH ₄ OAc, ppm Na	133
Chloride Ca-NO ₃ , ppm Cl	186.0
Boron Hot Water, ppm B	1.32
Calcium Carbonate, %	3.4

Sum of Cations, me/100g	% Saturation				
	H	K	Ca	Mg	Na
28.0	0	3	78	17	2

Saturated Soil Paste Analysis (SAR)

Saturation, %	37
Sat Paste pH	7.6
Sat Paste ECe, mmho/cm	3.94
HCO ₃ , ppm	153
Cl, ppm	339
Ca, ppm	516
Mg, ppm	157
Na, ppm	170
S, ppm	387.2

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Results For : CIV
Location : CPW

Sodium Adsorption Ratio			1.7
Soil Texture	Sand, %	Silt, %	Clay, %
Sandy Clay Loam	50	18	32
