

# SOIL ANALYSIS REPORT

<b>CLIENT:</b> 18250	OWN RESOURCES OPERATING LLC 36695 HWY 385 PO BOX 250 WRAY, CO 80758
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<b>LAB NO:</b>	36270
<b>INVOICE NO:</b>	632186
<b>DATE RECEIVED:</b>	11/05/2020
<b>DATE REPORTED:</b>	11/18/2020

## SOIL ANALYSIS RESULTS FOR: OWN RESOURCES FIELD IDENTIFICATION: REM 14936

METHOD USED:			1:1 Water-Soil		1:1 Water-Soil	XSL(I)					Mehlich 3 ICP			Ammonium Acetate	Mehlich 3 ICP						
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter			Phosphorus ppm P	Potassium ppm K			Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
36270	WHOMBLE04-28	0 - 36	7.7		0.36	Lo					583			4189	225	79					

METHOD USED:			Sat. Paste																		
Lab Number	Sample ID	Sample Depth	Saturation % Sat	Soil pH	Electrical Conductivity mmho/cm	Potassium mg/L K	Sulfur mg/L S	Calcium mg/L Ca	Magnesium mg/L Mg	Sodium mg/L Na	Carbonate mg/L CO <sub>3</sub>	Bicarbonate mg/L HCO <sub>3</sub>	Chloride mg/L Cl	Boron mg/L B	Sodium Adsorption Ratio	Cation:Anion					
36270	WHOMBLE04-28	0 - 36	39	7.83	0.67	26	10	73	7	37	<10	200	24	0.15	1.11	6.5 / 4.6					

FERTILIZER RECOMMENDATIONS:														POUNDS ACTUAL NUTRIENT PER ACRE										Cation Exchange Capacity					
Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to:			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Zn	S	Mn	Cu	MgO	B	Ca	Cl												
				6.0	6.5	7.0												CEC	%H	%K	%Ca	%Mg	%N						
36270	WHOMBLE04-28																	25	0	6	85	8							

SPECIAL COMMENTS AND SUGGESTIONS:																							
Lab Number(s): 36270 Servi-Tech Laboratory fertilizer recommendations were not requested.																							

Analyses are representative of the samples submitted      Samples are retained 30 days after report of analysis      Explanations of soil analysis terms are available upon request

Reviewed and  
Approved By: Hans Burken  
Agronomist

*Hans Burken*

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11/18/2020 3:10 pm

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<b>Send To:</b> 18250		OWN RESOURCES OPERATING LLC 36695 HWY 385 PO BOX 250 WRAY, CO 80758		 Hans Burken Agronomist	
<b>Results For:</b> OWN RESOURCES <b>Sample Identification:</b> WHOMBLE04-28 <b>Sample Depth:</b> 0-36"		<b>Invoice No.:</b> 632186 <b>Date Received:</b> 11/05/2020 <b>Field ID</b> REM 14936			

<b>Exchangable:</b>					
	<u>ppm</u>	<u>%</u>			
Calcium, Ca	4189	85	Cation Exchange Capacity, CEC meq/100g		25
Magnesium, Mg	225	8	Soil pH - 1:1		7.7
Potassium, K	583	6	Soil pH - Saturated Paste		7.8
Sodium, Na	79	1	Soluble Salts, mmho/cm		0.36
Excess Lime Rating		LOW	Exchangable Sodium Percent, ESP		1

<b>Extractable (from saturated paste, based on 39% water saturation):</b>					
	<u>mg/L</u>	<u>meq/L</u>			
Calcium (Ca)	73	3.6			
Magnesium (Mg)	7	0.6			
Sodium (Na)	37	1.6			
Sulfur (S)	10	0.6			
Boron (B)	0.15				
Potassium (K)	26	0.7			
Chloride (Cl)	24	0.7			
Bicarbonate (HCO <sub>3</sub> )	200	3.3			
Carbonate (CO <sub>3</sub> )	<10	<0.3			

Sodium Adsorption Ratio (SAR)	1.11
Electrical Conductivity (ECe), mmho/cm	0.67
Cation:Anion	6.5 / 4.6

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Calculated Gypsum Recommendation (from ESP and CEC)			
Soil Texture		Gypsum Rec. T/A	
COARSE	(sands, loamy sands, sandy loams)	0.0	To 0.0
MEDIUM	(loams, silt loams, clay loams)	0.0	To 0.0
FINE	(silty clay, clay loams, clays)	0.0	To 0.0

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This soil is considered: NON-SALINE/NON-SODIC

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SOIL PERMEABILITY HAZARD (based on ESP and SAR):					
Soil texture		Potential hazard			
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COARSE (sands, loamy sands, sandy loams)		LOW			
MEDIUM (loams, silt loams, clay loams)		LOW			
FINE (silty clay loams, clays)		LOW			
SOIL SALINITY HAZARD (based on extractable salts, ECe):					
Crop type		Potential hazard			
-----		-----			
SALT SENSITIVE (onions, carrots, many ornamentals, many fruit crops, etc.) . . . . .		LOW			
MODERATELY SENSITIVE (seedling alfalfa, corn, soybeans, many vegetables, etc.) . . . . .		LOW			
MODERATELY TOLERANT (wheat, wheatgrass, sudangrass, sorghum, fescue, oats, brome grass, etc.) . . . . .		LOW			
SALT TOLERANT (barley, bermudagrass, sugarbeets, cotton, etc.) . . . . .		LOW			
EXTRACTABLE BORON HAZARD (based on soil extractable boron, B):					
Crop type		Potential hazard			
-----		-----			
BORON SENSITIVE (such as sunflower, barley, onions, citrus, fruit trees, grapes, etc.) . . . . .		LOW			
MODERATELY SENSITIVE (such as potatoes, peppers, peas, radishes, etc.) . . . . .		LOW			
MODERATELY TOLERANT (such as wheat, corn, oats, clover, lettuce, turnips, celery, etc.) . . . . .		LOW			
BORON TOLERANT (such as alfalfa, beets, cotton, grain sorghum, tomatoes, vetch, etc.) . . . . .		LOW			

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