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Lab No.: 89059		SOIL ANALYSIS RESULTS		Date Reported: 04/05/2021	
Send To: 18250		OWN RESOURCES OPERATING LLC 36695 HWY 385 PO BOX 250 WRAY, CO 80758		 Hans Burken Agronomist	
Results For:		OWN RESOURCES		Invoice No.: 634411	
Sample Identification:		KLSER3-13		Date Received: 03/26/2021	
Sample Depth:		0-36"		Field ID FORM 27 UPDATE	
Exchangable:					
	<u>ppm</u>	<u>%</u>			
Calcium, Ca	4213	82	Cation Exchange Capacity, CEC meq/100g		26
Magnesium, Mg	144	5	Soil pH - 1:1		8.8
Potassium, K	656	7	Soil pH - Saturated Paste		8.0
Sodium, Na	432	7	Soluble Salts, mmho/cm		0.37
Excess Lime Rating		HIGH	Exchangable Sodium Percent, ESP		7
Extractable (from saturated paste, based on 47% water saturation):					
		<u>mg/L</u>		<u>meq/L</u>	
Calcium (Ca)		32		1.6	
Magnesium (Mg)		3		0.2	
Sodium (Na)		203		8.8	
Sulfur (S)		7		0.4	
Boron (B)		0.62			
Potassium (K)		29		0.7	
Chloride (Cl)		33		0.9	
Bicarbonate (HCO ₃)		500		8.2	
Carbonate (CO ₃)		21		0.7	
Sodium Adsorption Ratio (SAR) 9.19					
Electrical Conductivity (ECe), mmho/cm 1.01					
Cation:Anion 11.4 / 10.4					
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	0.6
This soil is considered: NON-SALINE/NON-SODIC					

The reported analytical results apply only to the sample as it was supplied.

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SOIL PERMEABILITY HAZARD (based on ESP and SAR):

Soil texture	Potential hazard
COARSE (sands, loamy sands, sandy loams)	LOW
MEDIUM (loams, silt loams, clay loams)	LOW
FINE (silty clay loams, clays)	CAUTION

GYPSUM SUGGESTIONS: If soil has good internal drainage, full gypsum rate can be used to reclaim the affected area, but keep applications below 2 to 3 tons in a single year. Reclamation may not be feasible if a high water table is present, but applying 1/2 to 1 ton of gypsum every one to two years may help prevent crusting and surface "sealing".

SOIL SALINITY: Saline soils can be managed by choosing tolerant crops, keeping the seedbed moist until crop establishment, and/or irrigating with relatively good quality irrigation water. Good internal soil drainage is needed to reclaim saline areas, so lowering water tables may be necessary. Test soil (and water) annually to monitor changes in salinity levels.

SOIL SALINITY HAZARD (based on extractable salts, ECe):

Crop type	Potential hazard
SALT SENSITIVE (onions, carrots, many ornamentals, many fruit crops, etc.)	CAUTION
MODERATELY SENSITIVE (seedling alfalfa, corn, soybeans, many vegetables, etc.)	LOW
MODERATELY TOLERANT (wheat, wheatgrass, sudangrass, sorghum, fescue, oats, bromegrass, etc.)	LOW
SALT TOLERANT (barley, bermudagrass, sugarbeets, cotton, etc.)	LOW

BORON: Excess soil boron may cause toxicity symptoms in sensitive plants. Toxicity should be verified by plant tissue analysis. If toxicity is a problem, choose boron tolerant crops and/or irrigate with relatively good quality irrigation water.

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.)	HIGH
MODERATELY SENSITIVE (such as potatoes, peppers, peas, radishes, etc.)	CAUTION
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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