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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 Sample Identification: KLSER3-13 Sample Depth: 0-36"		Invoice No.: 634411 Date Received: 03/26/2021 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):					
	mg/L	meq/L			
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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Sample Identification:		KLSER3-13		Date Received: 03/26/2021	
Sample Depth:		0-36"		Field ID FORM 27 UPDATE	
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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