

: SP 2009729-001

: July 22, 2020 : Ruben Sanchez : July 22, 2020 : Ground Water

: 2000200

August 5, 202 United Water	Lab ID Customer ID	
Attn: Brian Co	ollins	
1701 Lombard	Sampled On	
Oxnard, CA 9	Sampled By	
Description	: 01N21W06J05S:PTP Well #3	Received On
Project	: Pumping Through Pipeline	Matrix

Test Description		Re	sult		Graphical Results Presentation				
Cations	mg/L	Meq/L	% Meq	Lbs/AF	Good	Possible Problem	Moderate Problem	Increasing Problem	Severe Problem
Calcium	52	2.6	25	140	**				
Magnesium	19	1.6	15	52	**				
Potassium	6	0.15	1	16	**				
Sodium	138	6	58	380					
Anions									
Carbonate	< 10	0	0	0					
Bicarbonate	280	4.6	47	760	**				
Sulfate	192	4	41	520	**				
Chloride	42	1.2	12	110					
Nitrate	< 0.4	0	0	0					
Nitrate Nitrogen	< 0.1			0					
Fluoride	0.2	0.011	0	0.5					
Minor Elements									
Boron	0.40			1.1					
Copper	< 0.01			0					
Iron	0.070			0.19					
Manganese	0.020			0.054					
Zinc	< 0.02			0					
TDS by Summation	729			2000					
Other									
pH	7.9			units					
E. C.	1.03			dS/m					
SAR	4.2								
Crop Suitability									
No Amendments	Fair								
With Amendments	Good								
Amendments						-			·
Gypsum Requirement	0.8		Г	Cons/AF					
Sulfuric Acid (98%)	16		OZ	/1000Gal	Or 39 oz/10	00Gal of ure	a Sulfuric A	cid (15/49)	
Leaching Requirement	0.0074	1		%					
Good		Proble	m						

## **General Irrigation Suitability Analysis**

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

\*\* Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter

Office & Laboratory 9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 1563 CA ELAP Certification No. 2670 CA ELAP Certification No. 2775 CA ELAP Certification No. 2810

Corporate Offices & Laboratory 853 Corporation Street Santa Paula, CA 93060 TEL: (805)392-2000 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 FAX: (209)942-0423 CA ELAP Certification No. 1573

Office & Laboratory 2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182

Office & Laboratory 563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807

# **United Water Conservation Dist**

 Lab ID
 : SP 2009729-001

 Customer ID
 : 2000200

 Description
 : 01N21W06J05S:PTP Well #3

Test Description	Res	ult	Gr	Graphical Results Presentation		
Chemical			Slight	Moderate	Severe	
Manganese	0.02	mg/L				
Iron	0.07	mg/L				
TDS by Summation	729	mg/L				
No Amendments						
pH	7.9	units				
Alkalinity (As CaCO3)	230	mg/L				
Total Hardness	208	mg/L				
With Amendments						
Alkalinity (As CaCO3)	46	mg/L				
Total Hardness	46	mg/L				
рН	5.4 - 6.7	units				
Good	Problem	1				

### Micro Irrigation System Plugging Hazard

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

### Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

### Gypsum:

This should be applied at least once a year to the irrigated soil surface area. Gypsum can also be applied in smaller quantities in the irrigation water. Apply the smaller (bracketed) amount of gypsum when also applying the recommended amount of Sulfuric Acid and the larger amount when applying only Gypsum.

### Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F. Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

BRW: EHB

FRUIT GROWERS LABORATORY, INC. ) (Joddell



August 5, 202 United Water	Lab II Custo	
Attn: Brian Co	ollins	0.000
1701 Lombard	d Street, Suite 200	Samp
Oxnard, CA 9	Samp	
Description	: 01N21W07J02S:PTP Well #1	Recei
Project	: Pumping Through Pipeline	Matrix

Lab ID	: SP 2009729-002
Customer ID	: 2000200
Sampled On	: July 22, 2020
Sampled By	: Ruben Sanchez
Received On	: July 22, 2020
Matrix	: Ground Water

## **General Irrigation Suitability Analysis**

Test Description		Re	sult			Graphic	al Results Pre	esentation	
Cations	mg/L	Meq/L	% Meq	Lbs/AF	Good	Possible Problem	Moderate Problem	Increasing Problem	Severe Problem
Calcium	106	5.3	40	290	**	Tioblem	Tioblem	Tioblem	
Magnesium	36	3	22	98	**				
Potassium	8	0.2	2	22	**				
Sodium	110	4.8	36	300					
Anions									
Carbonate	< 10	0	0	0					
Bicarbonate	260	4.3	33	710	**				
Sulfate	357	7.4	58	970	**				
Chloride	40	1.1	9	110					
Nitrate	< 0.4	0	0	0					
Nitrate Nitrogen	< 0.1			0					
Fluoride	0.1	0.0053	0	0.3					
Minor Elements									
Boron	0.50			1.4					
Copper	< 0.01			0					
Iron	0.40			1.1					
Manganese	0.080			0.22					
Zinc	< 0.02			0					
TDS by Summation	917			2500					
Other									
рН	7.8			units					
E. C.	1.24			dS/m					
SAR	2.4								
Crop Suitability									
No Amendments	Fair								
With Amendments	Good								
Amendments									
Gypsum Requirement	0.1		Г	Cons/AF					
Sulfuric Acid (98%)	15		oz	/1000Gal	Or 37 oz/10	00Gal of ure	a Sulfuric A	cid (15/49)	
Leaching Requirement	0.0089	)		%					
Good		Proble	m						

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

\*\* Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter

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Office & Laboratory 563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807



# **United Water Conservation Dist**

 Lab ID
 : SP 2009729-002

 Customer ID
 : 2000200

 Description
 : 01N21W07J02S:PTP Well #1

Test Description	Res	ult	Graphical Results Presentation		
Chemical			Slight	Moderate	Severe
Manganese	0.08	mg/L			
Iron	0.4	mg/L			
TDS by Summation	917	mg/L			
No Amendments					
рН	7.8	units			
Alkalinity (As CaCO3)	220	mg/L			
Total Hardness	413	mg/L			
With Amendments					
Alkalinity (As CaCO3)	44	mg/L			
Total Hardness	44	mg/L			
рН	5.4 - 6.7	units			
Good	Problem	n			

### Micro Irrigation System Plugging Hazard

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

### Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

### Gypsum:

This should be applied at least once a year to the irrigated soil surface area. Gypsum can also be applied in smaller quantities in the irrigation water. Apply the smaller (bracketed) amount of gypsum when also applying the recommended amount of Sulfuric Acid and the larger amount when applying only Gypsum.

### Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F. Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

BRW: EHB

FRUIT GROWERS LABORATORY, INC. ) (Joddell



: SP 2009729-003

: July 22, 2020 : Ruben Sanchez : July 22, 2020 : Ground Water

: 2000200

August 5, 202 United Water	Lab ID Customer ID	
Attn: Brian Co	ollins	
1701 Lombard	Sampled On	
Oxnard, CA 9	Sampled By	
Description	: 01N22W13D03S:PTP Well #5	Received On
Project	: Pumping Through Pipeline	Matrix

Calcium1Magnesium4Potassium1Sodium1Anions1Carbonate<Bicarbonate2Sulfate3Chloride3Chloride3Nitrate<Nitrate<Fluoride0Minor ElementsBoron0Copper<0Iron0.4Manganese0Zinc<0TDS by Summation9	ng/L 120 41 7 110 <10 250 384 39		sult % Meq 42 24 1 33 0	Lbs/AF 330 110 19 300	Good ** ** **	Possible Problem	ll Results Pre Moderate Problem	Increasing Problem	Severe Problem
Calcium1Magnesium4Potassium1Sodium1Anions1Carbonate<Bicarbonate2Sulfate3Chloride3Chloride3Nitrate<Nitrate<Fluoride0Minor ElementsBoron0Copper<0Iron0.4Manganese0Zinc<0TDS by Summation9	120 41 7 110 10 250 384 39	6 3.4 0.18 4.8	42 24 1 33	330 110 19	**	Problem	Problem	Problem	
Magnesium4Potassium1Sodium1Anions1Carbonate2Bicarbonate2Sulfate3Chloride3Nitrate4Nitrate4Fluoride0Minor ElementsBoron0Copper4Iron0Manganese0Zinc4TDS by Summation9	41 7 110 (10) (250) (384) (39)	3.4 0.18 4.8	24 1 33	110 19					
PotassiumSodium1Anions1Carbonate<	7 110 10 250 384 39	0.18 4.8 0	1 33	19	**				
Sodium1AnionsCarbonate<	110 10 250 384 39	4.8 0	33						
AnionsCarbonate<	< 10 250 384 39	0		500					
Carbonate<	250 384 39		0						
Bicarbonate2Sulfate3Chloride3Chloride3Nitrate<	250 384 39			0					
Sulfate3Chloride3Chloride3Nitrate<	384 39	7.1	31	680	**				
Chloride3Nitrate<	39	8	61	1000	**				
Nitrate<Nitrate Nitrogen<		1.1	8	110					
Nitrate Nitrogen<Fluoride0Minor Elements0Boron0Copper<0	$\cdot \mathbf{n} \wedge 1 \downarrow$	0		0					
FluorideOMinor ElementsOBoronOCopper< O	0.4	0	0	0					
Minor ElementsBoron0.Copper< 0.	0.1	0.011	0	0.5					
Boron0.Copper< 0.	0.2	0.011	0	0.5					
Copper< 0	0.50			1.4					
Iron0.Manganese0.Zinc< 0.				1.4 0					
Manganese0Zinc< 0	.050			0.14					
Zinc < 0 TDS by Summation 9	).18			0.14					
TDS by Summation 9	0.02			0.49					
	951			2600					
Othom	951			2000					
Other pH 7	7.7			units					
L I				dS/m					
	2.2			us/III					
Crop Suitability	2.2								
1 1	airly (	Food							
	ood	300 <b>u</b>							
Amendments OC	000								
	0.0		г	Cons/AF					
Sulfuric Acid (98%)	0.0 15				$0r^{36} or^{10}$	000Gal of ure	Sulfurio A	rid(15/40)	
	15 .0091	l	ΟZ	/1000Gal %		oodal of ure	a Sumuric A	Ju (13/49)	
Leaching Requirement 0.	.0091	L		70					

## **General Irrigation Suitability Analysis**

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

\*\* Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter

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Office & Laboratory 563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807



# **United Water Conservation Dist**

 Lab ID
 : SP 2009729-003

 Customer ID
 : 2000200

 Description
 : 01N22W13D03S:PTP Well #5

Test Description	ption Result Graphical Results Presentation			ation	
Chemical			Slight	Moderate	Severe
Manganese	0.18	mg/L			
Iron	0.05	mg/L			
TDS by Summation	951	mg/L			
No Amendments					
pH	7.7	units			
Alkalinity (As CaCO3)	210	mg/L			
Total Hardness	468	mg/L			
With Amendments					
Alkalinity (As CaCO3)	42	mg/L			
Total Hardness	42	mg/L			
рН	5.4 - 6.7	units			
Good	Probler	n			

## Micro Irrigation System Plugging Hazard

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

### Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

### Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F. Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

**BRW: EHB** 

FRUIT GROWERS LABORATORY, INC	Ζ.
B. Woddell	



: SP 2009729-004

: July 22, 2020 : Ruben Sanchez

: July 22, 2020 : Ground Water

: 2000200

August 5, 202 United Water	Lab ID Customer ID	
Attn: Brian Co	ollins	
1701 Lombard	Sampled On	
Oxnard, CA 9	Sampled By	
Description	: 01N22W01M03S:PTP Well #4	Received On
Project	: Pumping Through Pipeline	Matrix

Cest Description Cations Calcium	mg/L		sult			Oraphica	ii itesuits i ie	semanon	
	mg/L		a	<b>T 1</b> ( ) <b>T</b>	Graphical Results Presentation				
Calcium		-	[ î	Lbs/AF	Good	Problem	Problem	Problem	Severe Problem
	126	6.3	46	340	**				
Magnesium	33	2.7	20	90	**				
Potassium	6	0.15	1	16	**				
Sodium	105	4.6	33	290					
Anions									
Carbonate	< 10	0	0	0					
Bicarbonate	240	3.9	31	650	**				
Sulfate	366	7.6	60	1000	**				
Chloride	42	1.2	9	110					
Nitrate	< 0.4	0	0	0					
Nitrate Nitrogen	< 0.1			0					
Fluoride	0.2	0.011	0	0.5					
Minor Elements									
Boron	0.50			1.4					
Copper	< 0.01			0					
Iron	0.30			0.82					
Manganese	0.11			0.3					
Zinc	< 0.02			0					
TDS by Summation	918			2500					
Other									
оH	7.7			units					
É. C.	1.25			dS/m					
SAR	2.2								
Crop Suitability									
No Amendments	Fairly (	Good							
With Amendments	Good								
Amendments									
Gypsum Requirement	0.0		Г	Cons/AF					
Sulfuric Acid (98%)	14		oz	/1000Gal	Or 34 oz/10	000Gal of ure	a Sulfuric A	cid (15/49)	
Leaching Requirement	0.0089	<del>)</del>		%				. ,	
Good		Proble			·				

## **General Irrigation Suitability Analysis**

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

\*\* Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter

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# **United Water Conservation Dist**

 Lab ID
 : SP 2009729-004

 Customer ID
 : 2000200

 Description
 : 01N22W01M03S:PTP Well #4

Test Description	scription Result Graphical Results Presentation			ation	
Chemical			Slight	Moderate	Severe
Manganese	0.11	mg/L		1	
Iron	0.3	mg/L			
TDS by Summation	918	mg/L			
No Amendments					
рН	7.7	units			
Alkalinity (As CaCO3)	200	mg/L			
Total Hardness	450	mg/L			
With Amendments					
Alkalinity (As CaCO3)	40	mg/L			
Total Hardness	40	mg/L			
рН	5.4 - 6.7	units			
Good	Problem	n			

## Micro Irrigation System Plugging Hazard

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

### Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

#### Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F. Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

BRW: EHB

FRUIT GROWERS LABORATORY, IN	C.
B. Woddell	



: SP 2009729-005

: July 22, 2020 : Ruben Sanchez

: July 22, 2020 : Ground Water

: 2000200

August 5, 202 United Water	Lab ID Customer ID	
Attn: Brian Co	ollins	
1701 Lombard	Sampled On	
Oxnard, CA 9	Sampled By	
Description	: 02N21W32E01S:PTP Well #2	Received On
Project	: Pumping Through Pipeline	Matrix

Test Description		Result				Graphical Results Presentation			
			1			Possible	Moderate	Increasing	
Cations	mg/L	Meq/L	1 1	Lbs/AF	Good	Problem	Problem	Problem	Severe Problem
Calcium	100	5	35	270	**				
Magnesium	43	3.5	25	120	**				
Potassium	6	0.15	1	16	**				
Sodium	124	5.4	38	340					
Anions									
Carbonate	< 10	0	0	0					
Bicarbonate	270	4.4	34	730	**				
Sulfate	340	7.1	54	920	**				
Chloride	56	1.6	12	150					
Nitrate	< 0.4	0	0	0					
Nitrate Nitrogen	< 0.1			0					
Fluoride	0.2	0.011	0	0.5					
Minor Elements									
Boron	0.40			1.1					
Copper	< 0.01			0					
Iron	0.22			0.6					
Manganese	0.030			0.082					
Zinc	< 0.02			0					
TDS by Summation	939			2600					
Other									
pH	7.8			units					
E. C.	1.30			dS/m					
SAR	2.6								
Crop Suitability									
No Amendments	Fair								
With Amendments	Good								
Amendments									
Gypsum Requirement	0.2		Г	Cons/AF					
Sulfuric Acid (98%)	15		OZ	/1000Gal	Or 37 oz/10	00Gal of ure	a Sulfuric A	cid (15/49)	
Leaching Requirement	0.0093	3		%					
Good		Proble	m						

Office & Laboratory

563 E. Lindo Avenue

TEL: (530)343-5818

FAX: (530)343-3807

Chico, CA 95926

Office & Laboratory 3442 Empresa Drive, Suite D San Luis Obispo, CA 93401

TEL: (805)783-2940

FAX: (805)783-2912

## **General Irrigation Suitability Analysis**

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Corporate Offices & Laboratory

CA ELAP Certification No. 1573

Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 FAX: (209)942-0423

853 Corporation Street

Santa Paula, CA 93060

TEL: (805)392-2000

\*\* Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter

Office & Laboratory

TEL: (209)942-0182

2500 Stagecoach Road Stockton, CA 95215

Office & Laboratory 9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 1563 CA ELAP Certification No. 2670 CA ELAP Certification No. 2775 CA ELAP Certification No. 2810

# **United Water Conservation Dist**

 Lab ID
 : SP 2009729-005

 Customer ID
 : 2000200

 Description
 : 02N21W32E01S:PTP Well #2

Test Description	Cription Result Graphical Results Presentation			ation	
Chemical			Slight	Moderate	Severe
Manganese	0.03	mg/L			
Iron	0.22	mg/L			
TDS by Summation	939	mg/L			
No Amendments					
pH	7.8	units			
Alkalinity (As CaCO3)	220	mg/L			
Total Hardness	426	mg/L			
With Amendments					
Alkalinity (As CaCO3)	44	mg/L			
Total Hardness	44	mg/L			
рН	5.4 - 6.7	units			
Good	Probler	n			

### Micro Irrigation System Plugging Hazard

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

### Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

#### Gypsum:

This should be applied at least once a year to the irrigated soil surface area. Gypsum can also be applied in smaller quantities in the irrigation water. Apply the smaller (bracketed) amount of gypsum when also applying the recommended amount of Sulfuric Acid and the larger amount when applying only Gypsum.

### Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F. Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

BRW: EHB

FRUIT GROWERS LABORATORY, INC. ) (Joddell



August 5, 2020							
<b>United Water Conservation Dist</b>							
Attn: Brian Collins							
1701 Lombard Street, Suite 200							
Oxnard, CA 93030							
Description	: 02N22W12H01:Saticoy #1						
Project	: Pumping Through Pipeline						

Lab ID	: SP 2009729-007
Customer ID	: 2000200
Sampled On	: July 22, 2020
Sampled By	: Ruben Sanchez
Received On	: July 22, 2020
Matrix	: Surface Water

# **General Irrigation Suitability Analysis**

Test Description		Re	sult			Graphica	al Results Pre	sentation	
Cations	mg/L	Meq/L	% Meq	Lbs/AF	Good	Possible Problem	Moderate Problem	Increasing Problem	Severe Problem
Calcium	163	8.1	45	440	**				
Magnesium	59	4.9	27	160	**				
Potassium	5	0.13	1	14	**				
Sodium	111	4.8	27	300					
Anions									
Carbonate	< 10	0	0	0					
Bicarbonate	300	4.9	30	820	**				
Sulfate	464	9.7	59	1300	**				
Chloride	58	1.6	10	160					
Nitrate	6.2	0.1	1	17					
Nitrate Nitrogen	1.4			4					
Fluoride	0.5	0.026	0	1					
Minor Elements									
Boron	0.70			1.9					
Copper	< 0.01			0					
Iron	< 0.03			0					
Manganese	< 0.01			0					
Zinc	< 0.02			0					
TDS by Summation	1170			3200					
Other									
pН	7.7			units					
E. C.	1.58			dS/m					
SAR	1.9								
Crop Suitability									
No Amendments	Fairly (	Good							
With Amendments	Fairly (	Good							
Amendments									
Gypsum Requirement	0.0		Г	Cons/AF					
Sulfuric Acid (98%)	17		OZ	/1000Gal	Or 42 oz/10	000Gal of ure	a Sulfuric A	cid (15/49)	
Leaching Requirement	0.011			%					
Good		Proble	m						

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

\*\* Used in various calculations; mg/L = Milligrams Per Liter (ppm) meq/L = Milliequivalents Per Liter

Office & Laboratory 9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 1563 CA ELAP Certification No. 2670 CA ELAP Certification No. 2775 CA ELAP Certification No. 2810

Corporate Offices & Laboratory 853 Corporation Street Santa Paula, CA 93060 TEL: (805)392-2000 Env FAX: (805)525-4172 / Ag FAX: (805)392-2063 FAX: (209)942-0423 CA ELAP Certification No. 1573

Office & Laboratory 2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182

Office & Laboratory 563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807

# **United Water Conservation Dist**

 Lab ID
 : SP 2009729-007

 Customer ID
 : 2000200

 Description
 : 02N22W12H01:Saticoy #1

Test Description	Res	ult	Gra	Graphical Results Presentation			
Chemical			Slight	Moderate	Severe		
Manganese	< 0.01	mg/L					
Iron	< 0.03	mg/L					
TDS by Summation	1170	mg/L					
No Amendments							
pH	7.7	units					
Alkalinity (As CaCO3)	250	mg/L					
Total Hardness	649	mg/L					
With Amendments							
Alkalinity (As CaCO3)	50	mg/L					
Total Hardness	50	mg/L					
рН	5.4 - 6.7	units					
Good	Problem	n					

### **Micro Irrigation System Plugging Hazard**

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

#### Water Amendments Application Notes:

The Amendments recommended on the previous pages include:

#### Sulfuric Acid:

These products should be applied as needed to prevent emitter plugging in micro irrigation systems and/or as a soil amendment to adjust soil pH to improve nutrient availability and to facilitate leaching of salts. Please exercise caution when using this material as excesses may be harmful to the system and/or the plants being irrigated. The reported Acid requirement is intended to remove approximately 80 % of the alkalinity. The final pH should range from 5.4 to 6.7. We recommend a field pH determination to confirm that the pH you designate is being achieved. This application is based upon the use of a 98% Sulfuric Acid product. The application of Urea Sulfuric Acid is based upon the use of a product that contains 15% Urea (1.89 lbs Nitrogen), 49% Sulfuric Acid and has a specific gravity of 1.52 at 68 °F. Guidelines for the above interpretations are sourced from USDA & U.C. Cooperative Extension Service publications. Please contact us if you have any questions.

BRW: EHB

FRUIT GROWERS LABORATORY, INC	2.
B. Woddell	