

Analytical & Consulting Services

4309 Armour Avenue Bakersfield, California 93308

(661) 395-0539 FAX (661) 395-3069

August 9, 2023

Richie Lawrence North Kern Water Storage District P O BOX 81435 Bakersfield, CA 93380

TEL: (661) 393-3361 FAX: (661) 393-6884

Project ID: Irrigation Analysis

RE: 2307649

Dear Richie Lawrence:

Zalco Laboratories, Inc. received 5 samples on 7/31/2023 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,

Juan Magana Project Manager

¹aggun d'

CC:

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time Leaching Procedure MCL: Maximum Contaminant Level

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ZALCO LABORATORIES, INC.

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(661) 395-0539 FAX (661) 395-3069

North Kern Water Storage District

33380 Cawelo Ave. Bakersfield, CA 93308

Laboratory No: Date Received: 2307649-01A

Analysis Date: Date Reported:

07/31/23 07/31/23 08/08/23

Attention: Richie Lawrence

Sample Identification:

Kimberlina

Sampled by:

Client

Date: 7/31/2023

Time: 6:52:00 AM

pH 7.74	4		
Specific Conductance 71.2	Specific Condu	0.07	
(micromhos/cm @ 25 C)	(millimhos/cm		
9	· · · · · · · · · · · · · · · · · · ·		
Constituents	mg/L	meq/L	
Calcium, Ca	5.2	0.3	
Magnesium, Mg	0.74	0.061	
Sodium, Na	< 7	0.00	
Potassium, K	1.10	0.028	
Alkalinity as:			
Hydroxide, OH	0.0	0	
Carbonate, CO3	0.0	0	
Bicarbonate, HCO3	25	0.4	
Chloride, Cl	< 2.0	0.056	
Sulfate, SO4	3.8	0.079	
Nitrate, NO3	1.0	0.016	
Totals (Sum)	45	0.9	
Boron, B	1.10		
Total Dissolved Solids, (Gravimetric)	41		
Calculated Hardness, CaCO3	16.0		
Sodium Adsorption Ratio, SAR	0.0		
Exchangeable Sodium Percentage, ESP	-1.30		
Cation/Anion Balance, %	35.0%		
NOTES AND THE SEASON OF THE SE			
Langelier Scale Index	-1.38		
TOTAL AND VORTINE TO THE PARTY AND A MARKET SALES			



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Bakersfield, CA 93380

Project: Irrigation Analysis

Project #: Irrigation Analysis

Attention: Richie Lawrence

Work Order No.: 2307649

Reported: 08/09/2023

Received: 07/31/23 09:55

Lab Sample ID: 2307649-01

Client Sample ID: Kimberlina

Collected By: Jorge Gonzalez

Date Collected: 7/31/2023 6:52:00AM

Analyte	Results	PQL	No.	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
General Chemistry			MCL Limits						
Total Suspended Solids	11	2.5	WOL LIMIO	mg/L		SM 2540 D	8/2/23	8/2/23	SIG

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Laboratory No: Date Received: 2307649-02A

Analysis Date: Date Reported:

07/31/23 07/31/23 08/08/23

Attention: Richie Lawrence

Sample Identification:

Stiff House

Sampled by:

Client

Date: 7/31/2023

Time: 7:24:00 AM

	CHOIL WALLECT WATER		
pH7.91			
Specific Conductance 36.7	Specific Condu	0.04	
(micromhos/cm @ 25 C)	(millimhos/cm	@ 25 C)	
Constituents	mg/L	meq/L	
Calcium, Ca	4.1	0.2	
Magnesium, Mg	0.62	0.051	
Sodium, Na	< 7	0.00	
Potassium, K	0.50	0.013	
Alkalinity as:			
Hydroxide, OH	0.0	0	
Carbonate, CO3	0.0	0	
Bicarbonate, HCO3	20	0.32	
Chloride, Cl	< 2.0	0.056	
Sulfate, SO4	3.2	0.067	
Nitrate, NO3	0.71	0.011	
Totals (Sum)	38	0.7	
Boron, B	0.63		
Total Dissolved Solids, (Gravimetric)	33		
Calculated Hardness, CaCO3	13.0		5
Sodium Adsorption Ratio, SAR	0.1		
Exchangeable Sodium Percentage, ESP	-1.10		
Cation/Anion Balance, %	40.0%		
- Annual Control of the Control of t			
Langelier Scale Index	-1.41		
Constitution of the Constitution of the State of the Stat			



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Project: Irrigation Analysis

Project #: Irrigation Analysis

Attention: Richie Lawrence

Work Order No.: 2307649

Reported: 08/09/2023

Received: 07/31/23 09:55

Lab Sample ID: 2307649-02

Client Sample ID: Stiff House

Collected By: Jorge Gonzalez

Date Collected: 7/31/2023 7:24:00AM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
General Chemistry			MCL Limits						
Total Suspended Solids	5.4	2.5	WOL LITTLE	mg/L		SM 2540 D	8/2/23	8/2/23	SIG

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North Kern Water Storage District

33380 Cawelo Ave.

Laboratory No: Date Received: 2307649-03A 07/31/23

Bakersfield, CA 93308

Analysis Date: Date Reported:

07/31/23 08/08/23

Attention: Richie Lawrence

Sample Identification:

7th Standard

Sampled by:

Client

Date: 7/31/2023

Time: 8:10:00 AM

pH7.51		S (2/2) \$2(0)	
Specific Conductance 25.1	Specific Condu	0.03	
(micromhos/cm @ 25 C)	(millimhos/cm	@ 25 C)	
Constituents	mg/L	meq/L	
Calcium, Ca	5.0	0.3	
Magnesium, Mg	0.74	0.061	
Sodium, Na	< 7	0.00	
Potassium, K	0.50	0.013	
Alkalinity as:			
Hydroxide, OH	0.0	0	
Carbonate, CO3	0.0	0	
Bicarbonate, HCO3	23	0.37	
Chloride, Cl	< 2.0	0.056	
Sulfate, SO4	3.3	0.069	
Nitrate, NO3	0.99	0.016	
Totals (Sum)	42	0.8	
Boron, B	0.56	333070	
Total Dissolved Solids, (Gravimetric)	89		
Calculated Hardness, CaCO3	16.0		
Sodium Adsorption Ratio, SAR	0.1		
Exchangeable Sodium Percentage, ESP	-1.10		
Cation/Anion Balance, %	36.0%		
Langelier Scale Index	-1.68		



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Project: Irrigation Analysis

Project #: Irrigation Analysis

Attention: Richie Lawrence

Work Order No.: 2307649

Reported: 08/09/2023

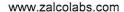
Received: 07/31/23 09:55

Lab Sample ID: 2307649-03 Client Sample ID: 7th Standard

Collected By: Jorge Gonzalez

Date Collected: 7/31/2023 8:10:00AM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
General Chemistry	×		MCL Limits						
Total Suspended Solids	16	2.5	90.0 Figure 1 100 A 100 A	mg/L		SM 2540 D	8/2/23	8/2/23	SIG





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North Kern Water Storage District

33380 Cawelo Ave. Bakersfield, CA 93308

Laboratory No: Date Received: 2307649-04A

Analysis Date: Date Reported:

07/31/23 07/31/23 08/08/23

Attention: Richie Lawrence

Sample Identification:

CT 1 @ Zachary

Sampled by:

Client

Date: 7/31/2023

Time: 8:34:00 AM

pH7.52						
Specific Conductance 33.3	Specific Condu	Specific Conductance (SC):				
(micromhos/cm @ 25 C)	(millimhos/cm (@ 25 C)				
Constituents	<u>mg/L</u>	meq/L				
Calcium, Ca	3.5	0.2				
Magnesium, Mg	0.51	0.042				
Sodium, Na	< 7	0.00				
Potassium, K	0.50	0.013				
Alkalinity as:						
Hydroxide, OH	0.0	0				
Carbonate, CO3	0.0	0				
Bicarbonate, HCO3	18	0.3				
Chloride, Cl	< 2.0	0.056				
Sulfate, SO4	2.5	0.052				
Nitrate, NO3	< 0.50	0				
Totals (Sum)	35	0.6				
Boron, B	0.42		Will was the same of the same			
Total Dissolved Solids, (Gravimetric)	28					
Calculated Hardness, CaCO3	11.0					
Sodium Adsorption Ratio, SAR	0.1					
Exchangeable Sodium Percentage, ESP	-1.10					
Cation/Anion Balance, %	43.0%					
Langelier Scale Index	-1.89					



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Project: Irrigation Analysis

Project #: Irrigation Analysis

Attention: Richie Lawrence

Work Order No.: 2307649

Reported: 08/09/2023

Received: 07/31/23 09:55

Lab Sample ID: 2307649-04

Client Sample ID: CT 1 @ Zachary

Collected By: Jorge Gonzalez

Date Collected: 7/31/2023 8:34:00AM

Analyte	N	22.					Date	Date	
Analyte	Results	PQL		Units	Flag	Method	Prepared	Analyzed	Init.
General Chemistry			MCL Limits						
Total Suspended Solids	<2.5	2.5		mg/L		SM 2540 D	8/2/23	8/2/23	SIG

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Laboratory No: Date Received: 2307649-05A 07/31/23

Analysis Date: Date Reported:

07/31/23 08/08/23

Attention: Richie Lawrence

Sample Identification:

Head of Beardsley

Sampled by:

Client

Date: 7/31/2023

Time: 9:19:00 AM

pH7.66			
Specific Conductance 41	Specific Condu	0.04	
(micromhos/cm @ 25 C)	(millimhos/cm	@ 25 C)	
2 3			
Constituents	mg/L	meq/L	
Calcium, Ca	4.5	0.2	
Magnesium, Mg	0.66	0.054	
Sodium, Na	< 7	0.00	
Potassium, K	0.50	0.013	
Alkalinity as:			
Hydroxide, OH	0.0	0	
Carbonate, CO3	0.0	0	
Bicarbonate, HCO3	23	0.37	
Chloride, Cl	< 2.0	0.056	
Sulfate, SO4	3.1	0.065	
Nitrate, NO3	1.00	0.017	
Totals (Sum)	41	0.8	
Boron, B	0.47		
Total Dissolved Solids, (Gravimetric)	120		
Calculated Hardness, CaCO3	14.0		
Sodium Adsorption Ratio, SAR	0.1		
Exchangeable Sodium Percentage, ESP	-1.10		
Cation/Anion Balance, %	40.0%		
Langelier Scale Index	-1.58		



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Bakersfield, CA 93380

Project: Irrigation Analysis

Project #: Irrigation Analysis

Attention: Richie Lawrence

Work Order No.: 2307649

Reported: 08/09/2023

Received: 07/31/23 09:55

Lab Sample ID: 2307649-05

Client Sample ID: Head of Beardsley

Collected By: Jorge Gonzalez

Date Collected: 7/31/2023 9:19:00AM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
General Chemistry			MCL Limits						
Total Suspended Solids	16	2.5	WOZ ZIIIIG	mg/L		SM 2540 D	8/2/23	8/2/23	SIG

REPORT DATE: 08-07-23

LOG NUMBER: 40515
DATE RECEIVED: 08-04-23
DATE COMPLETED: 08-04-23

CUSTOMER: Zalco Laboratories

ADDRESS: 4309 Armour Ave

Bakersfield, CA 93308

ATTENTION: Juan Magana

ANALYTICAL PARAMETER: Arsenic (As)

SAMPLE MATRIX: Water

40515-5	40515-4	40515-3	40515-2	40515-1	Log Number
2307649-05	2307649-04	230764903	2307649-02	2307649-01	Sample Description
Arsenic	Arsenic	Arsenic	Arsenic	Arsenic	Constituent
As	As	As	As	As	ent
0.004	0.002	0.004	0.003	0.004	-Res (mg/L)
3.69	2.47	3.50	3.13	4.06	-Results- (mg/L) (ug/L)
0.001	0.001	0.001	0.001	0.001	PQL/DLR (mg/L) (ug
1.00	1.00	1.00	1.00	1.00	/DLR (ug/L)
EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	EPA 200.8	Method Number
0.010	0.010	0.010	0.010	0.010	M (mg/L)
10.0	10.0	10.0	10.0	10.0	MCL (ug/L)

NOTES:

- PQL = Practical Quantitation Limit is the lowest level that can be reliably achieved within specific limits of precision and accuracy. It also depends upon the size and digestion/analytical techniques employed.
- DLR = Detection Limit for the purpose of reporting for Regulated Inorganic Chemical.

 MCL = Maximum Contaminate Level

 N.D. = Not Detected
- 32 4 C
- * Turbidity value is >1 NTU's. Sample was ran undigested per Client's request.

REFERENCES:

- ALPHA-AWWA-WPCF, "Standard Methods for the Examination of Water and Wastewater," 18th Edition. EPA, "Methods for Chemical Analysis of Water and Wastes," 1983 United States Environmental Protection Agency, EPA 600/4-79-020, Revised March 1983.

Kurt Buckle - Laboratory Director

Midway Laboratory, Inc.

_Date:

Midway Laboratory, Inc.
Petroleum-Industrial-Environmental
315 Main Street P.O. Box 1151
Taft California 93268

NOTE: Samples Discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.

Jorge Cronzalez

Relinquished By:

Company

H31173

Similar Simila

Received By:

Company:

Date

Sample Type Key:

Aq-Aqueous; BS-Blosolid; DW-Drinking Water; GW-Groundwater; G-Gas LPG-Liquid Petroleum Gas; OL-Oli; P-Petroleum; S-Solid/Soli; ST-Storm water

WW-Wastewater