Zalco
Laboratories, Inc.
4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

October 05, 2026

Richie Lawrence

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

RE: Irrigation Analysis

Zalco Work Order: 2609487
Zalco Project:

Enclosed are the results of analyses for samples received by our laboratory on 9/28/2026. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andrea Magana For Juan Magana
Laboratory Technical Manager

ZALCO LABORATORIES, INC.

4309 Armour Avenue, Bakersfield, CA 93308
Phone: (661) 395-0539
Website: www.zalcolabs.com

CHAIN OF CUSTODY, ID# 2409487

PO:
Project ID:

ANALYSIS REQUESTED

COMPANY: North Kern Water Storage
CONTACT: Richie Lawrence
PHONE: (661-976-9132
ADDRESS: 33380 Cawelo Ave Bakersfield CA 93308
AP/Email:
Report E-mail: rlawrence@northkernwsd.com
SAMPLER (SIGNATURE):

C.O.D.

RUSH!

Turnaround Time:
Routine: 5 (10 Business Days)
Rush By: Working Days
EDT: No JG
CLIP: (DIST/PERSON)
System#:
Client Declined State Submittal: X JG
EMAIL: X

Received Temp: 7.4 C°

LAB #	SAMPLE DESCRIPTION	DATE SAMPLED	TIME SAMPLED	Irrigation	TSS	Arsenic	Sample Matrix	Type of Container (s)	Number of Containers	Chlorine Residual	Field Temperature °C
1	Kimberlina	9-28-26	12:51	X	X	X	NP	P	1	-	-
2	Stiff House	9-28-26	1:06	X	X	X	NP	P	1	-	-
3	Tim Stannard	9-28-26	1:31	X	X	X	NP	P	1	-	-
4	CT 1 @ Zachary	9-28-26	1:47	X	X	X	NP	P	1	-	-
5	Head of Beardsley	9-28-26	2:27	X	X	X	NP	P	1	-	-

NOTES:

Relinquished By:	Company:	Date:	Time:	Received By:	Date:	Time:	Company:
Jorge Gonzalez		9/28/26	14:55	HMG	9/28/26	14:55	Zalco

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.

Sample Type Key: NP-Non-Potable; BS-Biosolid; DW-Drinking Water; GW-Groundwater; G-Gas LPG-Liquid Petroleum Gas; OL-Oil; P-Petroleum; S-Solid/Soil; ST-Storm water WW-Wastewater; L-Liquid; Aq-Aqueous

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North Kern Water Storage District	Project: Irrigation Analysis	
P O BOX 81435	Project Number: Irrigation Analysis	**Reported:**
Bakersfield, CA 93380	Project Manager: Richie Lawrence	10/05/2026 16:08

Sample Results

Sample Name: **Kimberlina**
Lab ID: **2609487-01**

Sampled Date - Time: 9/28/2026 12:51:00PM
Matrix: Water
Sample Type: Grab

Analyte	Result	Qual	Report Limt	MDL	Units	Dilution	Date Analyzed	Method	Analyst Initials
Solids									
Total Suspended Solids	**11**		2.5	0.33	mg/L	1	10/1/26 16:30	SM 2540 D-2015	TP

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. No duplication of this report is allowed, except in its entirety.

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Bakersfield, CA 93380	Project Manager: Richie Lawrence	10/05/2026 16:08

Sample Results

(Continued)

Sample Name: **Stiff House**
Lab ID: **2609487-02**

Sampled Date - Time: 9/28/2026 1:06:00PM
Matrix: Water
Sample Type: Grab

Analyte	Result	Qual	Report Limt	MDL	Units	Dilution	Date Analyzed	Method	Analyst Initials
Solids									
Total Suspended Solids	**4.2**		2.5	0.33	mg/L	1	10/1/26 16:30	SM 2540 D-2015	TP

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P O BOX 81435	Project Number: Irrigation Analysis	**Reported:**
Bakersfield, CA 93380	Project Manager: Richie Lawrence	10/05/2026 16:08

Sample Results

(Continued)

Sample Name: **7th Standard**
Lab ID: **2609487-03**

Sampled Date - Time: 9/28/2026 1:31:00PM
Matrix: Water
Sample Type: Grab

Analyte	Result	Qual	Report Limt	MDL	Units	Dilution	Date Analyzed	Method	Analyst Initials
Solids									
Total Suspended Solids	ND		2.5	0.33	mg/L	1	10/1/26 16:30	SM 2540 D-2015	TP

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P O BOX 81435	Project Number: Irrigation Analysis	**Reported:**
Bakersfield, CA 93380	Project Manager: Richie Lawrence	10/05/2026 16:08

Sample Results

(Continued)

Sample Name: **CT 1 @ Zachary**
Lab ID: **2609487-04**

Sampled Date - Time: 9/28/2026 1:47:00PM
Matrix: Water
Sample Type: Grab

Analyte	Result	Qual	Report Limt	MDL	Units	Dilution	Date Analyzed	Method	Analyst Initials
Solids									
Total Suspended Solids	ND		2.5	0.33	mg/L	1	10/1/26 16:30	SM 2540 D-2015	TP

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North Kern Water Storage District	Project: Irrigation Analysis	
P O BOX 81435	Project Number: Irrigation Analysis	**Reported:**
Bakersfield, CA 93380	Project Manager: Richie Lawrence	10/05/2026 16:08

Sample Results

(Continued)

Sample Name: **Head Of Beardsley**
Lab ID: **2609487-05**

Sampled Date - Time: 9/28/2026 2:27:00PM
Matrix: Water
Sample Type: Grab

Analyte	Result	Qual	Report Limt	MDL	Units	Dilution	Date Analyzed	Method	Analyst Initials
Solids									
Total Suspended Solids	**5.1**		2.5	0.33	mg/L	1	10/1/26 16:30	SM 2540 D-2015	TP

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P O BOX 81435	Project Number: Irrigation Analysis	**Reported:**
Bakersfield, CA 93380	Project Manager: Richie Lawrence	10/05/2026 16:08

Quality Control

Solids

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: 6J00046 - WetChem										
Blank (6J00046-BLK1)					Prepared & Analyzed: 10/1/2026					
Total Suspended Solids	ND		2.5	mg/L						
Duplicate (6J00046-DUP1)		**Source: 2609466-01**			Prepared & Analyzed: 10/1/2026					
Total Suspended Solids	24		2.5	mg/L		24			0.00	10
Reference (6J00046-SRM1)					Prepared & Analyzed: 10/1/2026					
Total Suspended Solids	97			mg/L	100		97.0	70-130		

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North Kern Water Storage District	Project: Irrigation Analysis	
P O BOX 81435	Project Number: Irrigation Analysis	**Reported:**
Bakersfield, CA 93380	Project Manager: Richie Lawrence	10/05/2026 16:08

Notes and Definitions

Item	Definition
Dry	Sample results reported on a dry weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

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North Kern Water Storage District
33380 Cawelo Avenue
Bakersfield, CA 93308

Attention: Richie Lawrence

Laboratory No:	2609487-01
Date Received:	09/28/26
Analysis Date:	09/29/26
Date Reported:	10/05/26

Sample Identification: Kimberlina
Sampled by: Jorge Gonzalez Date: 9/29/2026 Time: 12:51:00 PM

IRRIGATION WATER ANALYSIS

pH..... 8.47

Specific Conductance ..... 604 (micromhos/cm @ 25 C)

Specific Conductance (SC):..... 0.604 *(millimhos/cm @ 25 C)*

Constituents	mg/L	meq/L
Calcium, Ca	46	2.3
Magnesium, Mg	2.1	0.17
Sodium, Na	57	2.50
Potassium, K	2.2	0.056
Alkalinity as:		
Hydroxide, OH	0.0	0
Carbonate, CO3	2.8	0.09
Bicarbonate, HCO3	51	0.83
Chloride, Cl	73	2.1
Sulfate, SO4	100	2.1
Nitrate, NO3	18	0.29
Totals (Sum)	330	10.4
Boron, B	< 0.10	
Total Dissolved Solids, (Gravimetric)	350	
Calculated Hardness, CaCO3	120	
Sodium Adsorption Ratio, SAR	2.2	
Exchangeable Sodium Percentage, ESP	1.9	
Cation/Anion Balance, %	5%	
Langelier Scale Index	0.59	

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Attention: Richie Lawrence

Laboratory No:	2609487-02
Date Received:	09/28/26
Analysis Date:	09/29/26
Date Reported:	10/05/26

Sample Identification: Stiff House
Sampled by: Jorge Gonzalez Date: 9/29/2026 Time: 13:06:00 PM

IRRIGATION WATER ANALYSIS

pH..... 8.81
Specific Conductance ..... 448 (micromhos/cm @ 25 C)
Specific Conductance (SC):..... 0.448 *(millimhos/cm @ 25 C)*

Constituents	mg/L	meq/L
Calcium, Ca	37	1.8
Magnesium, Mg	3.0	0.25
Sodium, Na	36	1.60
Potassium, K	2.2	0.056
Alkalinity as:		
Hydroxide, OH	0.0	0
Carbonate, CO3	27	0.91
Bicarbonate, HCO3	55	0.89
Chloride, Cl	38	1.1
Sulfate, SO4	73	1.5
Nitrate, NO3	12	0.19
Totals (Sum)	250	8.3
Boron, B	< 0.10	
Total Dissolved Solids, (Gravimetric)	260	
Calculated Hardness, CaCO3	100	
Sodium Adsorption Ratio, SAR	1.5	
Exchangeable Sodium Percentage, ESP	0.9	
Cation/Anion Balance, %	12%	
Langelier Scale Index	1.02	

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Attention: Richie Lawrence

Laboratory No:	2609487-03
Date Received:	09/28/26
Analysis Date:	09/29/26
Date Reported:	10/05/26

Sample Identification: 7th Standard
Sampled by: Jorge Gonzalez Date: 9/29/2026 Time: 13:31:00 PM

IRRIGATION WATER ANALYSIS

pH..... 8.60

Specific Conductance ..... 169 (micromhos/cm @ 25 C)

Specific Conductance (SC):..... 0.169 *(millimhos/cm @ 25 C)*

Constituents	mg/L	meq/L
Calcium, Ca	12	0.6
Magnesium, Mg	2.3	0.19
Sodium, Na	13	0.57
Potassium, K	1.8	0.046
Alkalinity as:		
Hydroxide, OH	0.0	0
Carbonate, CO3	5.3	0.18
Bicarbonate, HCO3	60	0.98
Chloride, Cl	5.7	0.16
Sulfate, SO4	15	0.31
Nitrate, NO3	< 1	0
Totals (Sum)	89	3.0
Boron, B	0.11	
Total Dissolved Solids, (Gravimetric)	84	
Calculated Hardness, CaCO3	39	
Sodium Adsorption Ratio, SAR	0.9	
Exchangeable Sodium Percentage, ESP	0.1	
Cation/Anion Balance, %	12%	
Langelier Scale Index	0.25	

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Attention: Richie Lawrence

Laboratory No:	2609487-04
Date Received:	09/28/26
Analysis Date:	09/29/26
Date Reported:	10/05/26

Sample Identification: CT 1 @ Zachary
Sampled by: Jorge Gonzalez Date: 9/29/2026 Time: 13:47:00 PM

IRRIGATION WATER ANALYSIS

pH..... 8.70
Specific Conductance ..... 325 (micromhos/cm @ 25 C)
Specific Conductance (SC):..... 0.325 *(millimhos/cm @ 25 C)*

Constituents	mg/L	meq/L
Calcium, Ca	20	1.0
Magnesium, Mg	2.3	0.19
Sodium, Na	30	1.30
Potassium, K	1.7	0.043
Alkalinity as:		
Hydroxide, OH	0.0	0
Carbonate, CO3	5.9	0.2
Bicarbonate, HCO3	56	0.91
Chloride, Cl	29	0.82
Sulfate, SO4	54	1.1
Nitrate, NO3	< 1	0
Totals (Sum)	174	5.6
Boron, B	0.12	
Total Dissolved Solids, (Gravimetric)	190	
Calculated Hardness, CaCO3	59	
Sodium Adsorption Ratio, SAR	1.7	
Exchangeable Sodium Percentage, ESP	1.2	
Cation/Anion Balance, %	12%	
Langelier Scale Index	0.53	

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Attention: Richie Lawrence

Laboratory No:	2609487-05
Date Received:	09/28/26
Analysis Date:	09/29/26
Date Reported:	10/05/26

Sample Identification: Head of Beardsley
Sampled by: Jorge Gonzalez Date: 9/29/2026 Time: 14:27:00 PM

IRRIGATION WATER ANALYSIS

pH..... 8.13
Specific Conductance ..... 170 (micromhos/cm @ 25 C)
Specific Conductance (SC):..... 0.170 *(millimhos/cm @ 25 C)*

Constituents	mg/L	meq/L
Calcium, Ca	12	0.6
Magnesium, Mg	2.2	0.18
Sodium, Na	11	0.48
Potassium, K	1.8	0.046
Alkalinity as:		
Hydroxide, OH	0.0	0
Carbonate, CO3	0.0	0
Bicarbonate, HCO3	63	1.04
Chloride, Cl	5.6	0.16
Sulfate, SO4	15	0.31
Nitrate, NO3	< 1	0
Totals (Sum)	86	2.8
Boron, B	0.11	
Total Dissolved Solids, (Gravimetric)	69	
Calculated Hardness, CaCO3	39	
Sodium Adsorption Ratio, SAR	0.8	
Exchangeable Sodium Percentage, ESP	-0.1	
Cation/Anion Balance, %	12%	
Langelier Scale Index	-0.23	

Zalco Laboratories, Inc.

Sample Receipt Checklist

COC ID: 2609487

Checklist Completed: AMG Date/Time: 9/25/25 1455 Page 1 of 1

Sample Transport: GLS FEDEX UPS (WALK-IN) FIELD REP OTHER_____

	YES	NO
Was temperature within range? Chemistry ≤ 6°C Micro ≤ 10°C		✓
Shipping container intact? NA		
Chain of Custody present?	✓	
Chain of Custody agrees with sample labels?	✓	
Chain of Custody filled out completely?	✓	
Zero headspace in VOA? NA		
Samples received on: (Ice) Blue Ice No Ice		

Temperature Received: (A) 7.9 °C / (C) 7.3 °C Thermometer ID: (820)

If any discrepancies, a response must be detailed below:

Sample Containers	Sample Numbers									
	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10
100PU										
500PU										
1LPU	2	2	2	2	2					
2LPU										
250APU										
500APU										
1LAPU										
100PHNO3										
500PHNO3										
500PH2SO4										
500PNaOH										
500PZnNaOH										
125AGU										
250AGU										
500AGU										
1LAGU										
250AGNH4CI										
1LAGHCI										
1LAGH2SO4										
1LAGTHIO										
4OGU										
8OGU										
16OGU										
1LGU										
1LMJ										
2LMJ										
VOAU										
VOAHCI										
VOATHIO										
VOAAH3PO4										
100THIO(Bacti)										
1LMU										
2LMU										
20VIAL										
GC300										
GC500										
GC1000										
PB										
SLEEVE										
TED										
HOST										
OTHER										