DIVISION OF WATER RESOURCES

Region 7 — Basin Borrego Valley

Investigation Gen Water Qual. — **Ground Water Analyses** — DWR No. 10S/6E-28B1; SBB&M

County San Diego Near — Other Nos. 9

10S/6E-28B1 1)

Description and Location

[redacted]

Use Irrig. Depth 913 Date Completed Capacity (gpm) SWL

Drawdown Perforations Size Casing & Depth

Gravel Packed Seal At What Depth Log Water Level Record

Surface Elev. 614 Datum Source of Information

Lab./Field No.		64816											
Sampled By													
Date Collected													
Date Analyzed		4-28-52											
Temperature/pH			7.5										
EC x 10^6 @ 25° C		3395											
Constituents in		epm	% RV	ppm	epm	% RV	ppm	epm	% RV	ppm	epm	% RV	ppm
Cations:	Ca			228.0									
	Mg			2.4									
	Na			242.4									
	K												
Total Cations													
Anions:	CO_3			0.0									
	HCO_3			85.4									
	SO_4			748.0									
	CL			183.0									
	NO_3			19.4									
	F												
Total Anions													
Balance													
Boron				0.10									
Silica				0.1									
Total Solids/Sum		1380.0	1466										
Per Cent Sodium		47.6											
Hardness: Total/NC		580.0											
Laboratory/Chemist		Horukoh											
Copied: Date/By		9-1-53	H. Blaney										

REMARKS: 1. submitted by Di Giorgio Farms

2.

3.

4.

COPY

HORNKOHL LABORATORIES
Analyses of Oil, Waters, Soils, Oil Cores

714 Truxton Ave.
Bakersfield, California

P. O. Box 1673

Laboratory No. 64816

May 9, 1952

Sample Water

Marked - Well #9 105/6E-28B1

Received April 28, 1952

Submitted by Di Giorgio Farms
Di Giorgio, California

COMPLETE IRRIGATION WATER ANALYSIS

Constituents		Parts Per Million	Grains per Gallon	Water Classification
Carbonates	CO_3	0.0	0.00	Good
Bicarbonates	HCO_3	85.4	4.99	Good
Chlorides	Cl	183.0	10.70	Good
Sulfates	SO_4	748.0	43.74	Good
Sulfides	S	0.0	0.00	Good
Calcium	Ca	228.0	13.33	Good
Magnesium	Mg	2.4	0.14	Good
Sodium	Na	242.4	14.17	Good
Boron	B	0.10	---	Good
Nitrates	NO_3	19.4	---	Good
Iron	Fe	0.1	---	Good
Hardness as CaCO		580.0	33.92	Good
pH —	7.5			Good
Sodium Percentage -	47.6%			Good

Color: Water White
Odor: None
Turbidity: Clear
Conductivity: $Kx10^5$@25°C. — 339.5

Total Solids @ 105°C.	1413.0	82.63
Total Solids @ Red Heat	1380.0	80.70

Theoretical Analysis

Calcium Bicarbonate	113.5	6.64
Calcium Sulfate	680.7	39.81
Magnesium Sulfate	12.0	0.70
Sodium Sulfate	382.1	22.35
Sodium Chloride	301.6	17.64

REMARKS: As noted by the last column above, this sample would be classified as excellent for irrigation use.

D. Giorgio

Borrego

TEL. 9-8567

P. O. BOX 867

HORNKOHL LABORATORIES

CHEMICAL AND TESTING ENGINEERS

714 TRUXTUN AVENUE

BAKERSFIELD, CALIFORNIA

105/6E-28B1

Laboratory No. 79503 October 8, 196

Sample Water Marked Well #9

Received September 25, 1954

Submitted by A. F. Peterson
1603 California Avenue
Bakersfield, California

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IRRIGATION WATER ANALYSIS

CONSTITUENTS			PARTS PER MILLION	GRAINS PER GALLON	IRRIGATION WATER CLASSIFICATION
CARBONATES	(ALKALI)	(CO_3)	7.2	0.45	Good
BICARBONATES		(HCO_3)	102.5	5.99	Good
CHLORIDES	(SALT)	(Cl)	259.6	15.18	Good
SULPHATES		(SO_4)	1605.0	93.85	Good
SULPHIDES		(S)	0.0	0.00	Good
NITRATES		(NO_3)	4.4		Good
CALCIUM	(LIME)	(Ca)	383.2	22.41	Good
MAGNESIUM		(Mg)	54.2	3.17	Good
SODIUM		(Na)	438.6	25.65	Good
BORON		(B)	.05		Good
IRON		(Fe)	.1		Good
HARDNESS AS $CaCO_3$			1180.0	69.90	Good
TOTAL SOLIDS @ 105°C			2803.5	163.94	
TOTAL SOLIDS @ RED HEAT			2760.3	161.42	
pH (HYDROGEN ION CONCENTRATION)			8.3		
SODIUM PERCENTAGE			44.7%		
COLOR			Water White		
ODOR			None		
TURBIDITY			Clear		
CONDUCTIVITY, MHOS/CM^3X10^6@25°C.			363.3		

	Theoretical Analysis	
Calcium Carbonate	12.0	0.70
Calcium Bicarbonate	136.2	7.96
Calcium Sulfate	1174.0	68.65
Magnesium Sulfate	267.2	15.63
Sodium Sulfate	834.6	48.81
Sodium Chloride	427.9	25.02

Remarks: As noted by the last column above this sample would be classified as excellent for irrigation use.

Sum = 2850

TEL. 8-8567

P. O. BOX 867

HORNKOHL LABORATORIES

CHEMICAL AND TESTING ENGINEERS

714 TRUXTUN AVENUE

BAKERSFIELD, CALIFORNIA

10S/6E-28B1

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