



**ENVIRONMENTAL ENGINEERING LABORATORY**  
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115/6E-22D1

Digitorrio Corporation  
 Box 121  
 Borrego Springs, California  
 Attn: George Kukits

Date October 2, 1972  
 Date Collected \_\_\_\_\_  
 Date Received September 26, 1972

Sample Source: \_\_\_\_\_  
 Well # 10  
 Southern Borrego Project  
 Conductivity 530 micromhos/cm @ 25°C  
 pH 8.3

Principal Constituents		mg/l	me/l		mg/l	mg/l
<b>Cations:</b>						
Calcium	Ca	24		Aluminum	Al	
Magnesium	Mg	1.2		Zinc	Zn	
Sodium	Na	90		Hexavalent Chromium	Cr	
Potassium	K	5.0		Total Chromium	Cr	
Ammonia	NH <sub>4</sub>			Arsenic	As	
				Lead	Pb	
				Copper	Cu	
				Selenium	Se	
				Nickel	Ni	
<b>Anions:</b>						
Hydroxide	OH	0		Cyanide	CN	
Carbonate	CO <sub>3</sub>	0		Phenols		
Bicarbonate	HCO <sub>3</sub>	95		A B S		
Sulfate	SO <sub>4</sub>	105		Grease & Oil		
Chloride	Cl	52		Sulfides		
Nitrate	NO <sub>3</sub>	1.9				
Fluoride	F	0.78				
Boron	B			Suspended Solids		
Silica	SiO <sub>2</sub>	28		Volatile Suspended Solids		
Iron	Fe	0.48		Dissolved Solids		
Manganese	Mn	0		Volatile Dissolved Solids		
Total Phosphate	PO <sub>4</sub>			Settleable Solids		
Ortho Phosphate	PO <sub>4</sub>	0.65		BOD, 5 day 20°C		
Nitrite	N			Oxygen Consumed		
Nitrate	N	0.42		Coliform, MPN/100 ml		
Ammonia	N			Plate Count/ml		
Total Organic Nitrogen	N			Plankton Count/ml		
Total Kjeldahl Nitrogen	N					
Total Alkalinity	CaCO <sub>3</sub>	50				
Total Hardness	CaCO <sub>3</sub>	65				
Dissolved Solids		352				
Turbidity, Units						

c.c. Lin Burzell

Reported By *Robert H. Chambers*

## SOUTHERN BORREGO VALLEY PROJECT

## CHEMICAL ANALYSIS

Constituent		115/6E-25A1	115/6E-25C1	115/6E-23J1	115/6E-22D1
		1	2	8	10
Calcium	Ca	10.0	8.0	6.0	24
Magnesium	Mg	6.1	5.8	0	1.2
Sodium	Na	186.	106.	115	90
Potassium	K	3.8	3.6	2.8	5.0
Hydroxide	OH	0	0	0	0
Carbonate	CO <sub>3</sub>	0	0	0	0
Bicarbonate	HCO <sub>3</sub>	112	134	183	98
Sulfate	SO <sub>4</sub>	197	60	49	105
Chloride	Cl	100	80	52	52
Nitrate	NO <sub>3</sub>	2.2	6.7	4.0	1.9
Fluoride	F	0.80	1.0	1.1	0.78
Silica	SiO <sub>2</sub>	18	12	19	28
Iron	Fe	0.84	2.1	0.09	.48
Manganese	Mn	0	0	0	0
Ortho Phosphate	PO <sub>4</sub>	0	0.43	0.17	0.65
Nitrate	N	0.5	1.5	0.89	0.42
Total Alkalinity	CaCO <sub>3</sub>	92	110	150	80.
Total Hardness	CaCO <sub>3</sub>	50	44°	15	65
Dissolved Solids	TDS	560	400	364	352
Conductivity		900	575	550	530
pH		8.3	8.0	8.3	8.3
Date of Sample		6-6-72	7-10-72	10-10-72	9-26-72

°Note on 6-6-72 the first test of Well 2 indicated zero hardness.