

Long Beach, California  
July 1951

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the Department of the Navy

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NAVAL ORDINANCE TEST STATION AND VICINITY

GEOLOGY AND GROUND WATER OF THE IMPHAKI

U. S. Geological Survey  
closed-file report on

to accompany

By  
Fred Kunkel, G. H. Chase, and W. J. Halton

TABLES OF SELECTED DATA

OPEN-FILE APPENDIX

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Ground Water Branch

Table 5A.--Detailed chemical analyses of waters in Indian Wells Valley, Calif.--Continued

NO  
3

(Analyses in parts per million)

25/40-35P1	25/41-19L1	25/41-31C1	26/38-15Q1	26/39-5F1	26/39-7N1
5.1	1,420	0	75	46	31
6.1	120	0	22	23	10.8
<del>2,600</del> 2,620	3,080	89,600	69	140	62
20	55	423	2.9	4.1	(a)
294	0	13,100	0	0	-
1,410	24	597	188	196	103.7
(843)	(271)	(17,278)	(233)	(244)	94.7
2,290	7,440	110,000	24	74	52.2
-	-	-	-	-	-
7.8	13	-	.2	0.1	-
13	26	560	.12	0.41	-
<del>6,781</del>	12,437	231,215	520	630	303
99	62	100	35	59	52
10,300	19,500	174,000	811	898	-
9.1	6.6	9.3	8.0	7.8	8.0
38	4,040	0	278	210	-
0	4,020	0	124	49	-
15.4	23.5	14.0	Spring	200	368
71 22	72 22	66 19	69 21	70 21	-
7-9-53	7-9-53	7-9-53	8-5-53	8-3-53	8-26-49
USGS	USGS	USGS	USGS	USGS	(b)
8,208	<del>8,702</del>	8,206	8,174	8,170	-

assium determined with sodium.  
Analysis from Southern Pacific Railroad.

234	100	-	32	56	Na-K-Ca 4/5
114	113	-	116	114	Na-K-Ca 1/3
1,062	12.01	-	-	-	-
-	109	-	32	56	Na-K-Ca-Mg
115	114	-	32	56	Na-K-Ca-CO2
14	55	-4	110	85	Na-K
64	103	46	152	130	Na-K-Mod

Table 5A.--Detailed chemical analyses of waters in Indian Wells Valley, Calif.--Continued

25/39-9J1	25/39-12R1	25/39-24D1	25/39-28P1	25/39-35:11	25/40-8A1
48	39	33.7	68	35	20
32	29	19.3	17.0	12	33
121	165	81	76	96	322
9.8	16	8.7	4.2	3.3	36
0	0	0	0	0	0
410	362	277	160	196	384
105)	(134)	75	155	(72)	(206)
58	112	29	84	81	285
-	-	.57	.57	-	-
.2	.6	2.5	Trace	.7	1.1
1.8	2.9	.42	.55	.70	3.6
581	680	338	485	428	1,099
50	60	50	41	60	75
956	1,170	668	554	752	1,790
7.9	7.5	7.7	7.7	7.9	7.9
252	216	-	-	137	186
0	0	-	-	0	0
200	180.5	26.7	160.7	152.0	17.4
73	70	-	-	68	71
22	21	-	-	20	22
3-53	8-3-53	4-25-46	4-26-46	7-31-53	7-9-53
USGS	USGS	USDA	USDA	USGS	USGS
8,168	8,167	18,781	18,789	8,166	8,158

(81)	107	(80)	(44)	(52)	173	Na-K-Ca $\frac{4}{3}$
156	(172)	167	125	118	(199)	$\frac{1}{3}$
49.86	low (21)	4546	-	-	low (22)	
33	21	40	44	52	22	Na-K-Cu Mg
80	173	-	-	59 53	1200	Na-K-Ca-CO <sub>2</sub>
(84)	(171)	(179)	(171)	(171)	(171)	Na-K
200	214	223	171	140	227	Na-K Mod

Table 5A.--Detailed chemical analyses of waters in  
Indian Wells Valley, Calif.--Continued

(Analyses in parts per million)

	25/40-11K1	25/40-11K1	25/40-12M1	25/40-24H1	25/40-24M1	25/40-27E1
Ca	4.1	4.2	12	26	637	17
Mg	2.4	4.7	3.4	71	471	9.4
Na	554	508	1,020	26,100	515	300
K	25	24	39	322	31	19
CO <sub>3</sub>	29	92	0	0	0	28
HCO <sub>3</sub>	716	598	814	572	18	368
SO <sub>4</sub>	(249)	(142)	(388)	(129)	(1,097)	(153)
Cl	256	265	878	39,500	2,500	178
F	-	-	-	-	-	-
NO <sub>3</sub>	1.1	.2	3.0	-	4.4	0
B	-	7.2	-	-	5.3	1.2
Sum	1,174	1,346	2,750	66,434	5,270	890
% Na	96	95	96	99	24	86
K x 10 <sup>6</sup>	2,230	2,230	4,100	91,200	8,080	1,410
pH	8.5	9.0	8.0	7.3	6.4	8.7
Hardness						
Total	20	30	44	357	3,530	81
N.C.	0	0	0	0	3,510	0
Depth	62.3	62.3	59.4	40.4	30.5	16.4
°F	67 19	67 19	65 18	-	69 21	69 21
Date	5-14-53	7-6-53	5-14-53	5-15-53	7-8-53	7-9-53
Lab.	USGS	USGS	USGS	USGS	USGS	USGS
Lab. No.	7,346	8,194	7,365	7,366	8,198	8,209

Na-K-Ca	4/3 224	218	405	482	78	146
	1/3 (173)	(173)	(308)	(157)	145	(168)
	18.95	31.94	14.90	37.98	54.31	36.68
Δt	82	124	141	122	21	130
	91	149	309	-	79	169
Ca-K-Ca-Mg	174	174	167	35	57	38
Na-K-Ca-CO <sub>3</sub>	115	119	103	36	139	143
Na-K-Mo <sub>2</sub>	157	160	146	86	178	181

Table 5A.--Detailed chemical analyses of waters in Indian Wells Valley, Calif.--Continued

26/40-10N1	26/40-11A1	26/40-11J1	26/40-15E1	26/40-20N1	26/40-22NE
10	2.5	51	8.5	31	3.8
6.0	4.1	9.2	2.6	8.5	2.5
388	26,700	322	186	34	209
6.0	546	12	2.5	4.9	7.4
98	3,920	0	22	0	0
398	2,660	18	322	120	530
(14)	(4,742)	(147)	(24)	(46)	(6)
280	32,000	505	79	28	30
-	-	-	-	-	-
1.3	-	1.4	1.8	8.1	1.0
12	258	2.6	10	-	4.9
1,014	59,503	1,059	497	221	530
94	99	80	92	38	94
1,730	85,900	1,840	811	379	913
9.1	9.3	5.6	8.6	7.7	8.2
50	23	165	32	112	20
0	0	150	0	14	0
134.2	5.4	18.3	110.1	190.1	203.2
70 21	83 28	71 22	70 21	78 26	-
7-6-53	7-6-53	7-9-53	7-6-53	6-1-53	7-9-53
USGS	USGS	USGS	USGS	USGS	USGS
8,191	8,196	8,159	8,190	7,361	8,163
ca 115	4/3 1024	(98)	(79)	(56)	143
(112)	1/3 (206)	135	99	167	(146)
43.06	2.337	20.97	28.01	-	35.17
ca Mg 33	202	84	72	56	42
ca 112	207	99	80	57	146
(112)	(207)	(99)	(70)	(57)	(146)
48	62	101	40	231	98
K Mod 96	110	145	90	250	142

Table 5A.--Detailed chemical analyses of waters in  
Indian Wells Valley, Calif.--Continued

(Analyses in parts per million)

27/40-1K1	27/40-1K2 <i>P107</i>	27/40-1K1	27/40-3P1	27/40-3P1	27/40-4B2
68	56	20	514	540	17
7	23	7.2	140	122	5.2
278	335	170	898	868	63
(a)	11	3.6	17	14	2.8
72	0	0	0	0	0
-	110	192	322	330	134
43	(88)	(42)	(300)	244	(32)
452	562	178	2,300	2,260	40
-	-	-	-	0	-
-	2.9	1.4	15	16	5.5
-	-	-	-	6.9	-
920	1,133	518	4,345	4,236	233
76	75	81	51	50	67
983	2,120	923	7,420	7,720	413
-	7.2	7.8	7.0	7.0	7.8
-	234	80	1,860	-	64
-	144	0	1,590	-	0
-	164	199	120	120	375
-	-	76 <i>24</i>	-	-	78 <i>26</i>
1929	6-1-53	6-4-53	6-1-53	6-5-53	6-1-53
(d)	USGS	USGS	USGS	DMR	USGS
10.	7,378	7,380	7,374	P-574	7,370

Potassium determined with sodium.

Analysis from owner.

Na-K-Ca	413	(93)	(71)	(89)	(62)	(57)
1/3	129	109	106	99	127	
	38.079	35.198	30.623	26.871	31.734	
Na-K-Ca-Mg	47	61	63	62	57	
Na-K-Ca-CO <sub>2</sub>	-	72	-	-	58	
Na-K	92	65	58	50	114	
Na-K-Mod	137	112	97	98	156	

Table 5A.--Detailed chemical analyses of waters in  
Indian Wells Valley, Calif.--Continued

(Analyses in parts per million)

	26/40-30E2	26/40-32D1	26/40-32E1	26/40-33A2	26/40-33P1	26/40-33P1
	18	19	36	3.8	36	38
	10	5.9	8.4	.8	10.2	9.3
	34	37	42	79	58	55
	4.0	2.7	3.3	5.8	4.2	3.6
	0	0	0	0	-	0
	115	102	112	153	123	135
	(31)	(30)	(25)	(12)	46	49
	24	24	64	38	68	57
	-	-	-	-	-	0.5
	5.6	8.9	15	0.2	21.7	14
	0.14	0.10	0.16	-	0.3	0.28
	185	179	298	216	306	295
	45	52	42	89	48	46
106	341	325	476	368	547	533
	8.0	8.2	8.0	8.1	7.7	7.7
ness	86	72	124	13	-	133
tal	0	0	33	0	-	22
C.						
	402	279	300	350	400	400
	80 27	81 27	80 27	-	-	76 24
	8-5-53	7-10-53	7-9-53	6-1-53	1945	6-1-53
	USGS	USGS	USGS	USGS	(d)	USGS
No.	8,173	8,164	8,162	7,369	-	7,653

Analysis from owner.

Na-K-ca 60	49	44	118	53	48
4/3	140	141	165	142	136
4/3 R	-	-	16.29	-	-
Na-K-ca 20	49	44	101	53	48
Na-K-ca 63 61	50	45	-	-	49
Na-K 206	156	163	156	155	146
Na-K-mod 2 31	191	197	192	191	183

Table 5A.--Detailed chemical analyses of waters in Indian Wells Valley, Calif.--Continued

(Analyses in parts per million)

	27/40- 4F1	27/40- 4L1	27/40- 4L1	27/40- 8A1	27/40- 9P1	27/40- 10A1
	28	12	7.9	3.6	9.4	24
	3.6	4.8	2.5	0.5	1.6	22
	74	104	127	131	190	215
	(a)	(a)	2.1	1.6	2.5	5.3
	0	15	0	0	0	0
	127	152	172	166	230	188
	17	14	(49)	(33)	(33)	(60)
	89	78	80	90	158	287
	-	-	-	-	-	-
	0.9	0	4.2	0.5	0.7	5.2
	-	-	-	-	-	-
	276	304	359	343	510	713
	65	82	89	96	96	75
	625	489	577	618	931	1,340
	7.8	8.5	8.2	8.2	7.9	7.7
	-	-	30	11	30	150
	-	-	0	0	0	0
	-	252	252	440	230	150
	-	-	80	-	-	-
	1949	7-1950	6-1-53	6-1-53	6-1-53	6-1-53
	(d)	(d)	USGS	(USGS)	(USGS)	(USGS)
No.	-	-	7,371	7,372	7,373	7,376

potassium determined with sodium. analysis from owner.

	71	79	77	82
Na-K-Ca	102	96	98	117
R	31.46	15.71	19.80	57.57
Δt	-	-	-	-
Na-K-Ca-Mg	72	79	77	24
Na-K-Ca-CO <sub>3</sub>	69	-	-	-
Na-K	51	36	39	74
Na-K-Mo <sub>6</sub>	100	85	89	121

Table 5A.--Detailed chemical analyses of waters  
in Indian Wells Valley, Calif.

(Analyses in parts per million)

	24/38-28Q1	24/40-20J1	24/40-33N1	24/40-34E1	24/40-36A1
	57	67	4.7	275	195
	63	55	2.0	57	81
	79	272	2,000	286	350
	9.3	20	42	26	22
	0	0	264	0	0
CO <sub>3</sub> )	486	162	822	172	116
	(132)	(153)	(190)	(158)	(130)
	35	508	2,200	900	975
	-	-	-	-	-
	.3	1.8	9.8	3.1	3.9
	.18	-	8.4	2.7	7.8
	669	1,158	5,132	1,794	1,823
	29	32.57	98	39	47
ductance @ 25°C/	1,050	2,100	8,780	<del>3,300</del> 3,300	3,350
	7.5 7.2	7.6	9.2	8.0	7.9
CO <sub>3</sub> e	401	393	20	920	820
	3	260	0	780	724
	452	28.3	15.9	21.0	7.5
OF)	78 26	70 21	68 20	74 23	74 23
d	8-5-53	5-15-53	7-6-53	7-8-53	7-6-53
	USGS	USGS	USGS	USGS	USGS
	8,176	7,367	8,195	8,197	8,193

arithmetic total in parts per million of the concentrations  
constituents determined, except for bicarbonate which is  
d by 2.03 (Collins, W. D., Water Supply Paper 596-H, p. 253).  
the sulfate is calculated by difference the sum includes

Quantity	71	108	286	84	89
Na-K-Ca	166	162	155	161	150
3	-	-	11.16	24.57	39.29
R low (26)	low (21)				
Na-K-Ca-Mg	26	21	121	78	41
Na-K-Ca-CO <sub>3</sub>	72	163	156	85	90
Na-K	206	157	64	177	142
Na-K-Mg	231	192	112	209	180

Table 5A. --Detailed chemical analyses of waters in  
Indian Wells Valley, Calif. --Continued

(Analyses in parts per million)

	26/40-33P2	26/40-34N1 <i>NR</i>	26/41-7E1	26/41-7G1	26/42-29J1	27/38-31M
	100	16	42	313	97	6.2
	24	5.6	6.8	11	12	0
	101	63	254	2,620	1,290	64
	6.4	3.8	8.0	20	44	.4
	0	0	0	0	0	4.8
	236	136	178	26	71	88
	150	(25)	(182)	(1,004)	(43)	25
	138	45	255	3,880	21,200 <i>2,120</i>	16
	-	-	-	-	0.4	8.0
	33	-	0.8	12	-	13
	1.14	-	1.2	26	4.1	0.4
	672	226	839	7,899	22,727 <i>2,646</i>	182
Na x 10 <sup>6</sup>	38	67	79	87	89	90
	1,130	417	1,410	12,400	69,300	305
	7.7	7.8	7.7	7.0	7.5	8.8
Hardness						
Total	-	63	133	826	-	-
N. C.	-	0	0	804	-	-
Depth	250	232	32.4	31.3	-	-
	-	78 <i>26</i>	71 <i>22</i>	70 <i>21</i>	-	-
Date	1945	6-2-53	7-9-53	7-9-53	6-26-53	6-5-53
Lab.	(d)	USGS	USGS	USGS	DWR	DWR
Lab. No.	-	7,379	8,205	8,204	P-690	P-689

Analysis from owner

Ca-K-Ca $\frac{4}{3}$	(51)	(67)	(85)	(98)	153	(24)
	136	141	126	89	(147)	64
R	27.69	33.96	15.56	5.31	14.19	0
Ca-K-Ca-Mg	51	67	85	98	41	-
Ca-K-Ca-CO <sub>2</sub>	-	68	86	99	112	24
Na-K	143	139	90	14	95	6
Na-K-Mg	181	177	135	55	139	57

Table 5A.—Detailed chemical analyses of waters in  
Indian Wells Valley, Calif.--Continued

(Analyses in parts per million)

	e <i>? Plot</i>	f <i>? locate?</i>	g <i>locate?</i>	h <i>locate?</i>
Ca	25.4	58	103	60
Mg	77	53	30	14
Na	14,351	185	86	34
K	343	18	3.4	3.8
CO <sub>3</sub>	210	Trace	0	Trace
HCO <sub>3</sub>	1,053	640	393	257
SO <sub>4</sub>	3,427	99	115	57
Cl	19,290	109	89	9.2
F	29	1.14	.5	1.14
NO <sub>3</sub>	Trace	1.2	Trace	3.7
B	177	3.23	.46	.09
Sum	38,455	848	624	311
% Na	97	51	33	26
K x 10 <sup>6</sup>	49,680	1,410	1,060	526
pH	8.7	8.0	7.7	7.9
Hardness				
Total	-	-	-	-
N. C.	-	-	-	-
Depth	-	-	-	-
of	-	-	-	-
Date	3-22-46	3-20-46	3-21-46	3-19-46
Lab.	USDA	USDA	USDA	USDA
Lab. No.	18,702	18,698	18,700	18,696

e. Rising water in Salt Wells Canyon below bridge at location 26/40-28A.

f. Surface flow from Little Lake. Collected  $\frac{1}{3}$ -mile below lake.

g. Rising water in Mountain Springs Canyon about 1.7 miles above mouth of canyon.

h. Surface flow at mouth of Sand Canyon.

Na-K-Ca $\frac{1}{3}$	464	103	33	37
$\frac{1}{3}$	181	171	114	150

R 38,675 56,508

Na-K-Ca-Mg	147	171	33	37
Ca-Na-K-CO <sub>3</sub>	-	-	-	-
Na-K	72	185	105	200
Na-K-Mg	119	215	149	227

Table 5B.--Brief partial chemical analyses of waters in  
Indian Wells Valley, Calif.

Well number	Date	Temperature °F	Chloride parts per million	Boron :	as CaCO <sub>3</sub> :	Hardness: Specific conductance, micromhos at 77°F	Depth of well (feet)
40-32H1	9-22-53	-	315	4.3	54	1,780	111.5
33E1	9-22-53	-	390	7.5	108	2,200	160.8
35J1	9-22-53	-	65,000	247	38,900	120,000	7.0
39-31D1	10-21-52	74	59	-	206	1,100	252
31E1	10-22-52	74	50	-	119	837	164
40-3M1	9-22-53	-	870	17	40	8,080	8.0
20F1	10-21-52	66	52	-	166	748	182.6
		69	50	-	191	788	
		69	50	-	194	797	
38-1G1	10-22-52	73	106	-	210	906	156
17E1	3-14-53	68	17	-	260	764	110.0
39-7M1	10-22-52	82	50	-	139	570	368
19F1	10-22-52	83	78	-	136	582	446
21M1	10-22-52	-	30	-	113	435	295
24Q1	10-22-52	79	27	-	113 114	391	361
25C1	10-22-52	70	76	-	200	651	210
25E1	10-22-52	78	29	-	124	432	387
30J1	10-22-52	-	31	-	90	431	431
40-19P1	10-22-52	78	25	-	109	371	261.0
26B1	9-22-53	-	480	1.8	480	1,950	49.1
41-6A1	9-22-53	-	5,110	77	29	18,300	10.6
38-28R1	12-12-52	71	38	-	154	534	300
40-9P1	12-12-52	-	159	-	37	957	230

a. Three samples collected during 1-hour pump test.

Table 5A.--Detailed chemical analyses of waters in Indian Wells Valley, Calif.--Continued

(Analyses in parts per million)

	27/40-10A2	27/40-10C1	27/40-10J1	27/40-11L3	28/37-13	28/38-18
	167	183	34	18	54	7.0
	89	43.44	11	3.9	7.5	1.9
	320	580	212	160	92	105
	12	5.4	4.6	3.6	2.0	6.0
	0	0	0	0	0	Trace
	186	198	162	200	86	246
	(216)	(206)	(30)	(145)	82.1	22
	775	1,080	306	142	138	15
	-	-	-	-	0.4	-
	24	7.7	2.4	3.0	13.6	-
	-	4.7	2.0	-	0.5	2.2
	1,696	<del>2,209</del> 2,210	683	476	433	282
	47	66	77	84	54	87
10 <sup>6</sup>	3,050	3,850	1,330	837	770	524
	7.6	7.7	7.6	7.8	7.95	7.9
ness	782	638	130	61	-	-
total	630	476	0	0	-	-
. C.						
h	126	250	180	160	400	284
	-	78 26	78 26	-	-	-
	6-1-53	7-9-53	8-5-53	6-1-53	6-5-53	3-22-46
	(USGS)	(USGS)	USGS	USGS	D.R.	USDA
No.	7,375	8,161	8,172	7,377	P-672	18,707
Na-K-co	(71)	(52)	(70)	(173)	(31)	107
1/3	127	81	110	112	97	(153)
	45.86	-	33.27	24.46	-	23.71
	28	-	5	-	-	81
Na-K-mg/l #3		52	65	73	31	72
Na-K-co-CO3-	53		71	-	-	-
Na-K	102	23	66	68	66	134
Na-K-Mo	145	73	114	116	114	173

Table 5A.—Detailed chemical analyses of waters in  
Indian Wells Valley, Calif.—Continued

(Analyses in parts per million)

	26/40-33P2	26/40-34N1 <i>26/40</i>	26/41-7E1 <i>26/41</i>	26/41-7G1 <i>26/41</i>	26/42-29J1 <i>26/42</i>	27/38-31M <i>27/38</i>
	100	16	42	313	97	6.2
	24	5.6	6.8	11	12	0
	101	63	254	2,620	1,290	64
	6.4	3.8	8.0	20	44	.4
	0	0	0	0	0	4.8
	236	136	178	26	71	88
	150	(25)	(182)	(1,004)	(43)	25
	138	45	255	3,880	<del>21,200</del> <i>2,100</i>	16
	-	-	-	-	0.4	8.0
	33	-	0.8	12	-	13
	1.14	-	1.2	26	4.1	0.4
	672	226	839	7,899	<del>22,727</del> <i>2,646</i>	182
	38	67	79	87	89	90
06	1,130	417	1,410	12,400	69,300	305
	7.7	7.8	7.7	7.0	7.5	8.3
ess	-	63	133	826	-	-
al	-	0	0	804	-	-
C.	250	232	32.4	31.3	-	-
	-	78 <i>26</i>	71 <i>22</i>	70 <i>21</i>	-	-
	1945	6-2-53	7-9-53	7-9-53	6-26-53	6-5-53
	(d)	USGS	USGS	USGS	DWR	DWR
No.	-	7,379	8,205	8,204	P-690	P-689
analysis from owner		(67)	(85)	(98)	153	(24)
Na K Ca	(51)	141	126	89	(147)	64
1/3	136	-	19.56	-	14.14	-
	27	-	-	-	41	-
Na K Ca mg	51	67	85	98	106	24
Na-K-Ca-103	-	68	86	99	-	-
Na-K	143	139	90	14	95	6
Na-K-Mod	181	177	135	65	139	57

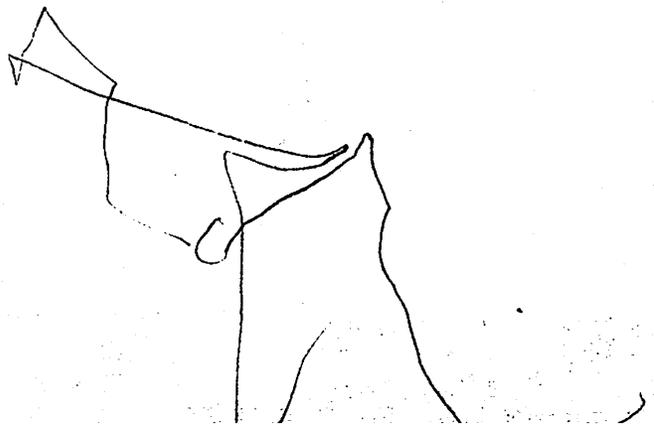


Table 5C.--Detailed and brief partial chemical analyses  
of water from 8 test wells drilled by the  
Inyokern Naval Ordnance Test Station

(Analyses in parts per million)

	25/40-33L2	25/41-28B1 <sup>NOT ON MAP</sup>	26/40	1A21/	26/40	1A22/
Calcium (Ca)	-	-	-	-	0	-
Magnesium (Mg)	-	-	-	-	1.9	-
Sodium (Na)	-	-	-	-	5,400	-
Potassium (K)	-	-	-	-	64	-
Carbonate (CO <sub>3</sub> )	-	-	-	-	2,430	-
Bicarbonate (HCO <sub>3</sub> )	-	-	-	-	1,420	-
Sulfate (SO <sub>4</sub> )	-	-	-	-	(1,620)	-
Chloride (Cl)	898	1,390	3,220	-	3,460	-
Fluoride (F)	-	-	-	-	-	-
Nitrate (NO <sub>3</sub> )	-	-	-	-	-	-
Boron (B)	3.8	17	-	-	151	-
Sulfide	-	-	-	-	13,837	-
Sodium (Na)	-	-	-	-	99	-
Specific conductance micromhos @ 25°C	3,730	5,050	16,900	-	19,100	-
Acidity	-	-	-	-	9.6	-
Total as CaCO <sub>3</sub>	205	200	4.0	-	8	-
Noncarbonate	-	-	-	-	0	-
Depth of well	22	162	198	-	198	-
Temperature (°F)	63 17	71 22	72 22	-	76 24	-
Date collected	3-4-54	3-10-54	3-9-54	-	3-9-54	-
Laboratory	USGS	USGS	USGS	-	USGS	-
Laboratory No.	10,796	10,797	10,794	-	10,795	-

Sample collected from natural flow.  
Sample collected from pump discharge.

34 Na/K  
84 Na/K-Mod

DCBA  
EFGH  
IJKL  
NOPQ

Table 5A.—Detailed chemical analyses of waters in  
Indian Wells Valley, Calif.—Continued

(Analyses in parts per million)

25/40-11K1	25/40-11K1	25/40-12M1	25/40-24H1	25/40-24M1	25/40-27E1
4.1	4.2	12	26	637	17
2.4	4.7	3.4	71	471	9.4
554	508	1,020	26,100	515	300
25	24	39	322	31	19
29	92	0	0	0	28
716	593	814	572	18	338
(247)	(142)	(308)	(129)	(1,097)	(153)
256	265	878	39,500	2,500	178
-	-	-	-	-	-
1.2	.2	3.0	-	4.4	0
-	7.2	-	-	5.3	1.2
1,474	1,316	2,750	66,434	5,270	890
95	95	96	99	24	86
2,230	2,230	4,100	91,200	8,080	1,410
3.5	9.0	8.0	7.3	6.4	8.7
20	30	44	357	3,530	81
0	0	0	0	3,510	0
62.3	62.3	59.4	40.4	30.5	16.4
57 14	67 19	65 18	-	69 21	69 21
5-14-53	7-6-53	5-14-53	5-15-53	7-8-53	7-9-53
USGS	USGS	USGS	USGS	USGS	USGS
7,345	8,194	7,365	7,366	8,198	8,209
224	218	220	482	78	168 Na-K-Ca <sup>4</sup>
173	174	166	160	145	168 1/3
18.95	31.94	14.90	37.98	-	36.68
91	49	107	35	21	Na-K-Ca
173	175	167	(1+a)	-	38 mg
					169 Na-K-Ca
					CO2
157	160	146	86	177	Na/K
					181 Na/K Mod

Table 5C.---Detailed and brief partial chemical analyses  
of water from 8 test wells drilled by the  
Inyokern Naval Ordnance Test Station--Cont.

(Analyses in parts per million)

	26/40-1A3 <i>Plot</i>	26/40-22P1 <i>Plot</i>	26/40-24R1	26/40-36A1	26/41-7C2
	-	3.4	9.6	90	-
	-	0.6	24	22	-
	-	407	228	483	-
	-	7.1	18	24	-
	-	24	0	0	-
	-	766	136	118	-
	-	23	(83)	(62)	-
	19,500	152	314	875	1,440
	-	4.0	-	-	-
	-	1.1	-	-	-
	73	3.0	1.8	3.7	19
	-	1,008	746	1,619	-
	-	98	77	75	-
	52,700	1,690	1,430	3,060	6,580
	-	8.6	7.6	7.6	-
	22	11	122	315	11
	-	0	11	218	--
	18	850	149	270	49
	68 <sup>20</sup>	90 <sup>32</sup>	71 <sup>22</sup>	72 <sup>22</sup>	68 <sup>20</sup>
	3-17-54	2-23-54	3-9-54	3-8-54	4-5-54
	USGS	USGS	USGS	USGS	USGS
	10,801	10,623	10,800	10,799	10,798
Na-K-Ca $\frac{1}{3}$	-	155	157	115	-
Na-K-Ca $\frac{1}{3}$	-	125	180	150	-
R	-	12.32	Low (22°C)	26.17	-
Na-K-Ca-Mg	-	110	22	64	-
Na-K-Ca-CO <sub>2</sub>	-	126	182	153	-
Na-K	-	54	163	123	-
Na-K Mod	-	102	198	164	-

Table 5A.--Detailed chemical analyses of waters in Indian Wells Valley, Calif.--Continued

(Analyses in parts per million)

26/40- 141	26/40- 1J1 Plot #	26/40- 5F1	26/40- 5P1 Plot	26/40- 7E1	26/40- 10F1 Plot
2.3	271	24	48	34	16
3.8	120	4.5	9.0	11.1	6.0
1,600	18,200-18,500	95	150	275	169
265	339	5.7	7.3	54	7.5
1,500	0	0	0	0	0
2,300	145	158	228	674	274
3,575)	(2,309)	32	(61)	2.4	(40)
3,600	27,100	83	171	179	124
-	-	1.14	-	.76	-
-	-	.6	1.1	2.5	0.4
211	16	.95	2.8	7.32	5.9
6,767	48,427 4,227	326	564	903	506
100	96	70	66	75	83
4,000	666,000-666,000	376-647	1,030	1,770	876
9.4	7.9	7.9	7.1	7.4	8.2
21	1,170	-	157	-	64
0	1,050	-	0	-	0
15.2	18.3	24.6	89.3	86.0	38.9
68 20	70 21	-	70 21	-	70 21
8-53	7-8-53	2-1-46	8-4-53	1-22-46	7-9-53
USGS	USGS	USDA	USGS	USDA	USGS
3,199	8,200	18,009	8,171	18,807	8,160

Chlorides nitrite.

564	297	77	74	173	101 Na-K-co $\frac{4}{3}$
289	153	144	136	225	142 $\frac{1}{3}$
4.336	30.78	21.60	22.28	22.87	33.26
	52	77	74	88	46 Na-K-co-Mg
289	154	-	75	-	143 Na-K-co CO <sub>2</sub>
249	138	138	121	274	114 Na-K
264	106	177	162	283	156 Na-K Mod

Table 5A.--Detailed chemical analyses of waters in Indian Wells Valley, Calif.--Continued.

(Analyses in parts per million)

26/39-7N1	26/39-11E1	26/39-11E1	26/39-19F1	26/39-24Q1	26/39-30J1
40	35	31	43	32	28
7.3	7.5	7.3	6.8	7.8	3.8
69	45	33	64	36	59
(a)	-2.5 2.4	5.7	2.7	3.8	2.5
-	0	0	0	0	0
122	138	135	107	120	128
95	(49)	36	70	44	59
52.8	38	28	76	26	33
-	-	.76	.6	.5	.5
7.3	2.2	Trace	3.6	9.3	8.7
-	.53	0.25	.24	0.15	.1
332	249	210	321	220	259
53	45	38	50	40	59
-	441	380	577	388	434
8.6	7.9	7.6	7.6	7.9	8.1
-	118	-	136	112	-
-	5	-	48	14	-
368	250	242.3	446	361	431
-	72 22	-	83 28	79 26	-
3-27-51	7-29-53	1-22-46	6-1-53	5-6-52	6-5-53
(b)	USGS	USDA	USGS	USGS	D:R
-	8,165	18,799	7,652	4,349	F-692

potassium determined with sodium.  
analysis from Southern Pacific Railroad.

Na-K-Ca 4/3	(37)	(57)	(39)	(48)	(44)
- 1/3	125	175	119	153	121
Na-Mg	38	57	39	48	44
Na-K-CO <sub>3</sub>	36	-	38	47	-
Na-K	114	255	110	193	110
Na-K-Mg	168	269	153	222	163

Table 5A.--Detailed chemical analyses of waters in Indian Wells Valley, Calif.--Continued

(Analyses in parts per million)

26/40-23C1	26/40-24C1	26/40-26B1	26/40-28A3	26/40-28C1	26/40-28H1
688	88	193	8.4	28	35
74	7.3	33	2.2	5.5	8.3
608	145	237	98	63	69
20	9.0	10	8.8	6.8	14
0	0	0	0	0	0
20	120	118	189	138	124
(1,048)	(85)	(327)	(65)	(56)	(134)
1,600	275	500	22	44	34
-	-	-	-	-	-
6.4	2.3	4.6	0.7	6.1	1.2
7.8	0.43	1.7	-	-	-
4,062	672	1,365	299	278	358
39	55	45	84	58	52
5,980	1,240	2,370	440	502	579
6.8	7.8	7.8	8.0	7.8	7.7
2,020	250	617	30	92	122
2,000	151	520	0	0	20
40.2	45.4	49.1	-	147	-
70 21	72 22	74 23	-	-	75 24
7-9-53	7-9-53	7-8-53	6-1-53	6-1-53	6-1-53
USGS	USGS	USGS	USGS	USGS	USGS
8,202	8,203	8,201	7,363	7,362	7,368
(64)	(67)	(57)	117	(74)	94 Na-K-coe $\frac{4}{3}$
120	142	126	(173)	164	198 $\frac{1}{3}$
-	-	-	21.93	22.35	19.75
64	67	57	80	74	88 Na-K-co-Mg
92	141	110	176	196	278 Na-K
137	179	152	208	224	286 Na-K-Mg
65	68	58	-	-	95 Na-K-co $\frac{1}{2}$

Table 5A.--Detailed chemical analyses of waters in Indian Wells Valley, Calif.--Continued

1/38-11K2	25/38-23G1	25/38-34J1	25/39- 2E1	25/39- 4R1	25/39- 7K1
26	38	26	42.9	51	19
20	8.2	32	23.4	35	35.8
60	80	156	109	148	267
4.9	5.3	7.0	9.4	13	17.0
0	0	0	0	0	Trace
248	210	498	341	428	470
(47)	84	(88)	93	(139)	141
22	34	28	51	80	126
-	.57	-	.95	-	.57
2.0	.6	6.1	1.8	1.8	Trace
0.47	.34	.8	1.83	2.6	4.0
306	356	593	503	683	845
46	56	62	52	53	69
560	374	979	558	1,130	1,350
7.8	7.7	7.6	7.8	7.7	8.1
147	-	196	-	271	-
0	-	0	-	0	-
-	259.0	350	210.5	200	122
-	-	-	-	74 23	-
-53	4-24-46	8-5-53	4-23-46	8-5-53	4-23-46
SGS	USDA	USGS	USDA	USGS	USDA
177	18,776	8,175	18,771	8,169	18,722

(64)	(62)	(86)	(81)	(91)	
150	142	138	159	143	135 $\frac{1}{3}$ Na-K-Ca
-	-	low	low	low	(165) $\frac{1}{3}$
64	62	86	81	23	low - Na-K-Ca-Mg
167	147	115	172	91	165 Na-K-Ca-CO <sub>2</sub>
200	184	157	205	174	Na-K
				206	144
					181 Na-K Mod