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NATIONAL URANIUM RESOURCE EVALUATION PROGRAM

HYDROGEOCHEMICAL AND STREAM SEDIMENT
RECONNAISSANCE BASIC DATA FOR
CARLSBAD QUADRANGLE, NEW MEXICO

Uranium Resource Evaluation Project

August 31, 1981

OPERATED BY
UNION CARBIDE CORPORATION
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DEPARTMENT OF ENERGY

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A computer readable magnetic tape containing measurement, analysis, and location data may be purchased from the GJOIS Project, UCC-ND Computer Applications Dept., 4500 North Building, Oak Ridge National Laboratory, P. O. Box X, Oak Ridge, Tennessee 37830.

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NATIONAL URANIUM RESOURCE EVALUATION PROGRAM

**HYDROGEOCHEMICAL AND STREAM SEDIMENT
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ABSTRACT

Field and laboratory data are presented for 467 water samples and 1,680 sediment samples from the Carlsbad Quadrangle, New Mexico. The samples were collected and uranium analysis performed by Los Alamos National Laboratory; multielement analysis and data reporting were performed by the Uranium Resource Evaluation Project at Oak Ridge, Tennessee.

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HYDROGEOCHEMICAL AND STREAM SEDIMENT
RECONNAISSANCE BASIC DATA FOR
CARLSBAD QUADRANGLE, NEW MEXICO

INTRODUCTION

The National Uranium Resource Evaluation (NURE) Program was established by the U. S. Atomic Energy Commission, now the U. S. Department of Energy (DOE), in the spring of 1973 to assess uranium resources and to identify favorable areas for detailed uranium exploration throughout the United States. The principal objectives of the NURE Program are: (1) to provide a comprehensive in-depth assessment of the nation's uranium resources for national energy planning, and (2) to identify areas favorable for uranium resources. The NURE Program report, an Assessment Report on Uranium in the United States of America (1980), evaluates the uranium resources in 135 National Topographic Maps Series (NTMS) 1° x 2° quadrangles. The NURE Program is currently scheduled to continue the assessment process.

The NURE Program consists of five parts:

1. Hydrogeochemical and Stream Sediment Reconnaissance (HSSR) Program,
2. Aerial Radiometric and Magnetic Survey,
3. Surface Geologic Investigations,
4. Drilling for Geologic Information, and
5. Geophysical Technology Development.

The objective of the HSSR Program is to provide information to be used in accomplishing the overall NURE Program objectives. This is accomplished by a reconnaissance of surface water, groundwater, stream sediment, and lake sediment. The survey is being conducted by Los Alamos National Laboratory (LANL), Oak Ridge Gaseous Diffusion Plant (ORGDP), and Savannah River Laboratory (SRL).

A total of 467 water samples and 1,680 sediment samples from the Carlsbad Quadrangle (Figure 1) were received from LANL for multielement analysis by the Uranium Resource Evaluation (URE) Project laboratory in Oak Ridge, Tennessee. Multielement analyses were completed in July 1981, and the final data base used to generate the tables was completed in August 1981.

Figure 1

INDEX MAP SHOWING THE LOCATION OF THE CARLSBAD QUADRANGLE

SAMPLE COLLECTION

Detailed information regarding techniques employed in sample collection, recording of site data, utilization of field equipment, and obtaining field measurements may be found in "Field Procedures for the Uranium Hydrogeochemical and Stream Sediment Reconnaissance as Used by the Los Alamos Scientific Laboratory" (Sharp, R. R., Jr. and Aamodt, P. L., April 1978).

LABORATORY PROCEDURES

Uranium analyses were performed by LANL. Multi-element analytical procedures which were used are described by Cagle (1977) and Arendt, et al (December 1979). Detection limits for all elements are listed in Table 1.

Procedures used to analyze URE Project reconnaissance samples require that calibration standards, check samples, and blanks be analyzed along with normal samples to ensure the validity of reported results. A measurements control program provides information concerning precision and reliability of these measurements. Control samples of two water batches and three sediment batches are submitted anonymously along with routine samples on a daily basis. Statistical summaries of results reported on control samples, which were analyzed with the samples included in this survey, are given in Tables 2 and 3.

A principal component error analysis of the data was used to produce an ordered list of samples using the eigenvalue statistics as described by Kane, et al (1977), where the most extreme samples were listed first. Additional unusual samples were identified if single-element measurements were outside a three standard deviation confidence interval around the mean. Five water samples, approximately 1% of the total, (020645, 021472, 021682, 021683, and 021966) appeared to be the most unusual. Small sample volume available precluded reanalysis of the unusual samples. Extreme sediment samples identified in the same manner are 020149, 020239, 494296, 494685, 494281, 494202, 494231, 494376, 494211, 020525, 494464, 020252, 494266, 036377, and 020538.

DATA PRESENTATION

Water sample site locations are shown on Plate 1 and a symbol plot for uranium (ppb) is shown on Plate 2. Sediment site locations are shown on Plate 3 and a symbol plot for uranium (ppm) is shown on Plate 4. The lognormal probability distribution and frequency plots for uranium in

Table 1

DETECTION LIMITS OF VARIABLES DETERMINED IN WATER AND SEDIMENT SAMPLES

Variable	Method	Detection Limits	
		Sediment (ppm)	Water (ppb)
Ag	Plasma Source Emission Spectrometry	2	2
Al	Plasma Source Emission Spectrometry	0.05(a)	10
B	Plasma Source Emission Spectrometry	10	4
Ba	Plasma Source Emission Spectrometry	2	2
Be	Plasma Source Emission Spectrometry	1	1
Ca	Plasma Source Emission Spectrometry	0.05(a)	0.1(b)
Ce	Plasma Source Emission Spectrometry	10	30
Co	Plasma Source Emission Spectrometry	4	2
Cr	Plasma Source Emission Spectrometry	1	4
Cu	Plasma Source Emission Spectrometry	2	2
Fe	Plasma Source Emission Spectrometry	0.05(a)	10
Hf	Plasma Source Emission Spectrometry	15	--
K	Plasma Source Emission Spectrometry	0.05(a)	0.1(b)
La	Plasma Source Emission Spectrometry	2	--
Li	Plasma Source Emission Spectrometry	1	2
Mg	Plasma Source Emission Spectrometry	0.05(a)	0.1(b)
Mn	Plasma Source Emission Spectrometry	4	2
Mo	Plasma Source Emission Spectrometry	4	4
Na	Plasma Source Emission Spectrometry	0.05(a)	0.1(b)
Nb	Plasma Source Emission Spectrometry	4	--
Ni	Plasma Source Emission Spectrometry	2	4
P	Plasma Source Emission Spectrometry	5	40
Pb	Plasma Source Emission Spectrometry	10	--
Sc	Plasma Source Emission Spectrometry	1	1
Si	Plasma Source Emission Spectrometry	--	0.1(b)
Sr	Plasma Source Emission Spectrometry	1	2
Th	Plasma Source Emission Spectrometry	2	--
Ti	Plasma Source Emission Spectrometry	10	2
V	Plasma Source Emission Spectrometry	2	4
Y	Plasma Source Emission Spectrometry	1	1
Zn	Plasma Source Emission Spectrometry	2	4
Zr	Plasma Source Emission Spectrometry	2	2

(a) Detection limits expressed in percent.

(b) Detection limits expressed in ppm.

Table 2

SUMMARY OF MEASUREMENTS CONTROL RESULTS OBTAINED WITH WATER SAMPLES FROM THE CARLSBAD QUADRANGLE

Element	Method	Batch L-4				Batch H-4			
		No. of Samples	Mean (ppb)	Standard Deviation (ppb)	Coefficient of Variation	No. of Samples	Mean (ppb)	Standard Deviation (ppb)	Coefficient of Variation
AL	PS(a)	112	79.0	30.1	0.38	125	354.0	33.7	0.10
B	PS	112	1,515.0	67.1	0.04	125	68.0	4.2	0.06
Ba	PS	112	161.0	8.1	0.05	125	36.0	1.9	0.05
Ca	PS	112	10,300.0	910.0	0.09	125	98,800.0	5,500.0	0.06
Co	PS	112	18.0	6.8	0.38	125	92.0	8.1	0.09
Cr	PS	112	99.0	10.3	0.10	125	20.0	3.9	0.20
Cu	PS	112	44.0	3.4	0.08	125	189.0	12.3	0.07
Fe	PS	112	101.0	14.7	0.15	125	972.0	72.6	0.07
K	PS	112	1,700.0	350.0	0.21	125	19,100.0	1,600.0	0.09
Li	PS	112	18.0	1.8	0.10	125	107.0	10.7	0.10
Mg	PS	112	9,400.0	550.0	0.06	125	73,400.0	4,000.0	0.06
Mn	PS	112	20.0	2.3	0.12	125	102.0	6.3	0.06
Mo	PS	112	44.0	11.4	0.26	125	8.0	9.3	1.20
Na	PS	112	1,700.0	170.0	0.10	125	48,000.0	3,600.0	0.08
Ni	PS	112	202.0	18.0	0.09	125	43.0	10.2	0.24
P	PS	112	99.0	23.0	0.23	125	4,786.0	245.2	0.05
Sc	PS	112	57.0	5.4	0.09	125	9.8	1.4	0.14
Si	PS	112	1,100.0	80.0	0.07	125	8,700.0	530.0	0.06
Sr	PS	112	52.0	3.8	0.07	125	5,002.0	287.2	0.06
Ti	PS	112	108.0	7.1	0.07	125	38.0	2.8	0.07
V	PS	112	10.0	8.3	0.83	125	46.0	9.1	0.20
Y	PS	112	10.0	1.5	0.15	125	46.0	3.8	0.08
Zn	PS	112	468.0	37.4	0.08	125	21.0	6.0	0.29

(a) Plasma source emission spectroscopy.

Table 3

SUMMARY OF MEASUREMENTS CONTROL RESULTS OBTAINED WITH SEDIMENT SAMPLES FROM THE CARLSBAD QUADRANGLE

Element	Method	Batch Q-1				Batch R-3				Batch S-3			
		No. of Samples	Mean (ppm)	Standard Deviation (ppm)	Coefficient of Variation	No. of Samples	Mean (ppm)	Standard Deviation (ppm)	Coefficient of Variation	No. of Samples	Mean (ppm)	Standard Deviation (ppm)	Coefficient of Variation
AL	PS(a)	77	3,800.0	500.0	0.05	104	33,600.0	3,310.0	0.10	63	48,600.0	2,030.0	0.04
B	PS	81	6.0	3.2	0.47	105	15.0	6.4	0.40	67	62.0	11.5	0.18
Ba	PS	81	124.0	11.7	0.09	104	432.0	39.7	0.09	69	290.0	31.6	0.11
Be	PS	80	-	-	-	105	1.0	3.2	2.57	69	2.0	4.3	2.00
Ca	PS	82	1,100.0	120.0	0.12	106	2,800.0	400.0	0.14	68	15,900.0	1,370.0	0.09
Ce	PS	80	19.70	3.9	0.20	102	68.22	12.1	0.18	68	64.93	9.7	0.15
Co	PS	82	4.0	2.5	0.63	105	12.0	2.6	0.21	66	32.0	2.5	0.08
Cr	PS	82	13.0	3.1	0.23	104	27.0	3.2	0.12	69	62.0	6.8	0.11
Cu	PS	75	4.0	0.7	0.18	97	21.0	1.9	0.09	66	69.0	3.6	0.05
Fe	PS	79	9,500.0	410.0	0.04	104	17,800.0	1,170.0	0.07	66	39,300.0	1,940.0	0.05
K	PS	81	1,800.0	210.0	0.11	103	9,600.0	990.0	0.10	67	15,800.0	1,910.0	0.12
Li	PS	81	9.0	0.8	0.09	104	22.0	2.0	0.09	69	34.0	3.3	0.10
Mg	PS	82	1,100.0	80.0	0.08	101	2,100.0	130.0	0.06	69	5,400.0	320.0	0.06
Mn	PS	80	305.0	16.1	0.05	103	1,886.0	113.9	0.06	67	391.0	21.2	0.05
Mo	PS	1	-	-	-	105	-	-	-	65	41.0	4.9	0.12
Na	PS	1	<500.0	-	-	104	1,500.0	160.0	0.10	67	1,500.0	180.0	0.12
Nb	PS	79	<4.0	-	-	106	11.0	3.7	0.33	69	5.0	2.8	0.46
Ni	PS	79	6.0	1.4	0.22	104	19.0	2.8	0.14	69	104.0	8.8	0.08
P	PS	80	66.0	9.8	0.15	105	1,915.0	298.4	0.16	69	1,328.0	188.2	0.14
Pb	PS	71	<10.0	-	-	54	38.0	5.7	0.15	65	28.0	8.3	0.30
Sc	PS	82	1.0	0.5	0.29	104	5.0	0.6	0.10	67	9.0	0.6	0.06
Sr	PS	81	19.0	1.3	0.07	99	54.99	2.7	0.05	69	85.26	5.0	0.06
Th	PS	82	2.0	1.7	0.79	106	6.0	3.8	0.57	69	7.0	3.8	0.53
Ti	PS	82	564.0	53.3	0.09	103	3,270.0	309.4	0.09	68	2,095.0	182.9	0.09
V	PS	77	20.0	1.0	0.05	103	53.0	4.9	0.09	67	160.0	8.2	0.05
Y	PS	1	-	-	-	102	19.0	1.5	0.07	67	33.0	1.7	0.05
Zn	PS	76	12.0	1.9	0.15	101	89.0	9.5	0.11	67	171.0	20.0	0.12
Zr	PS	81	29.0	2.9	0.10	102	134.0	10.9	0.08	68	81.0	5.6	0.07
Hf	PS	72	<15.0	-	-	53	-	-	-	65	-	-	-
La	PS	72	13.5	6.4	0.47	54	55.39	23.7	0.43	66	59.53	20.3	0.34

(a) Plasma source emission spectroscopy.

water and sediment samples (Figures 2a, 2b, and 3a, 3b, respectively) are shown. Water data is presented on Tables 4 and 5 which are a statistical summary for all laboratory data and a tabular listing of selected field information and all laboratory data, respectively. A statistical summary and a tabular listing for all sediment samples are presented on Tables 6 and 7, respectively.

Figure 2

LOGNORMAL PROBABILITY AND FREQUENCY PLOTS FOR URANIUM (PPB)
IN WATERS OF THE CARLSBAD QUADRANGLE

Figure 3

LOGNORMAL PROBABILITY AND FREQUENCY PLOTS FOR URANIUM (PPM)
IN SEDIMENTS OF THE CARLSBAD QUADRANGLE

Table 4

STATISTICAL SUMMARY FOR WATERS OF THE CARLSBAD QUADRANGLE

NO. SAMPLES ANALYZED		BELOW		DETECTION LIMIT		MINIMUM	MAXIMUM	MEAN	MEDIAN	MODE	COEFFICIENT OF VARIATION		LN TRANSFORMATION			
ELEMENT	VALUES	DETECTION LIMIT	DETECTION LIMIT	VALUE	VALUE	STANDARD DEVIATION	OF VARIATION				MEAN	S. D.	MEAN	S. D.		
U	274			0.01	52.00	3.71	1.91	1.37	5.562	1.499	0.65	1.20	0.67	1.17		
AG	142	325	<2	<2	13	4	<2	<2	2.1	0.5	1.32	0.46				
AL	448	19	<10	<10	5631	297	82	27	615.5	2.1	4.69	1.39	4.55	1.38		
B	467			6	11267	305	99	12	810.1	2.6	4.61	1.41	4.56	1.52		
BA	467			5	1175	77	41	37	116.5	1.5	3.85	0.89	3.82	0.90		
BE	0	467	<1	<1	<1	<1	<1	<1								
CA	467			15.3	3437.0	360.4	177.3	122.8	461.50	1.28	5.36	0.98	5.34	0.94		
CE	98	369	<30	<30	6019	264	<30	<30	968.7	3.7	4.07	1.05				
CD	149	316	<2	<2	31	5	<2	<2	3.3	0.6	1.53	0.58				
CR	167	306	<4	<4	132	9	<4	<4	14.4	1.5	1.96	0.62				
CU	432	35	<2	<2	2304	36	12	<2	128.9	3.5	2.66	1.21	2.46	1.37		
FE	437	30	<10	<10	13197	406	98	<10	1037.7	2.6	4.83	1.46	4.61	1.63		
K	467			0.2	1944.0	11.2	2.8	0.4	91.40	8.18	1.03	1.30	0.99	1.31		
LI	438	25	<2	<2	901	70	25	<2	120.4	1.7	3.27	1.46	3.11	1.66		
MG	466	1	<0.1	<0.1	1375.0	116.0	72.6	10.7	162.64	1.40	4.13	1.12	4.16	1.08		
MN	439	25	<2	<2	4242	53	15	<2	222.7	4.2	2.94	1.26	2.74	1.48		
MO	250	217	<4	<4	384	19	<4	<4	35.6	1.8	2.58	0.77				
NA	456	1	<0.1	<0.1	6175.0	141.3	28.7	6.3	547.61	3.87	3.47	1.49	3.40	1.52		
NI	321	146	<4	<4	991	36	8	<4	92.9	2.6	2.80	1.04	2.09	1.42		
P	50	417	<40	<40	1663	232	<40	<40	345.8	1.5	4.84	1.00				
SC	114	353	<1	<1	15	2	<1	<1	2.5	0.9	0.74	0.73				
SI	457			0.5	82.3	13.8	9.0	4.8	13.32	0.97	2.27	0.84	2.26	0.78		
SR	456	1	<2	<2	70163	5677	2503	211	8786.3	1.5	7.68	1.51	7.68	1.37		
TI	234	183	<2	<2	181	13	<2	<2	20.9	1.5	2.00	1.07				
V	253	214	<4	<4	356	16	<4	<4	25.9	1.6	2.43	0.77				
Y	216	251	<1	<1	8	1	<1	<1	1.0	0.6	0.39	0.47				
ZN	460	7	<4	<4	15063	740	244	22	1445.0	2.0	5.35	1.75	5.32	1.87		
ZR	202	265	<2	<2	26	8	<2	<2	5.0	0.6	1.89	0.65				
PH	466			5.6	9.8	7.4	7.4	7.8	0.59	0.08						
CT-F	465			155	50060	3011	800	507	7511.3	2.5	7.03	1.10	6.92	1.13		

Table 5

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	COMM	MEAS	PH	CT-F
20095	W	35	32.227	104.313	2	08	10/31/76	11	19.0	13.5	C		8.6	550
20101	W	35	32.439	104.756	2	08	10/25/76	10	24.0	18.0			7.2	1000
20104	W	35	32.458	104.739	2	08	10/25/76	10	25.0	15.0			7.6	500
20114	W	35	32.452	104.839	2	08	10/25/76	14	26.0	14.0			6.3	2000
20133	W	35	32.381	104.619	2	08	10/26/76	11	23.0	19.0			6.9	1000
20135	W	35	32.411	104.634	2	08	10/26/76	11	24.0	16.0			6.8	2800
20138	W	35	32.397	104.691	2	08	10/26/76	13	24.0	16.0			6.9	550
20140	W	35	32.373	104.716	2	08	10/26/76	14	22.0	18.0			6.9	500
20154	W	35	32.443	104.634	2	08	10/29/76	10	10.0	12.0			6.3	390
20165	P	35	32.423	104.482	2	06	10/29/76	14	14.0	14.0	C		6.6	1200
20172	W	35	32.478	104.433	2	08	10/29/76	15	14.0	12.0			6.8	650
20177	W	35	32.451	104.366	2	08	10/29/76	16	12.0	12.0			6.8	660
20187	W	35	32.315	104.392	2	08	10/30/76	10	18.0	15.0			6.6	500
20190	W	35	32.336	104.322	2	08	10/30/76	11	18.0	14.0			6.6	480
20195	W	35	32.350	104.460	2	08	10/30/76	12	20.0	14.0			6.9	1000
20202	L	35	32.277	104.079	2	09	10/26/76	10	19.0	14.0			7.3	660
20204	W	35	32.264	104.125	2	08	10/26/76	11	24.0	21.0			7.3	2460
20215	W	35	32.481	104.029	2	08	10/28/76	11	4.0	0.9	C		7.9	2800
20220	W	35	32.368	104.079	2	08	10/28/76	14	5.0	11.5			7.3	2400
20228	L	35	32.415	104.057	2	10	10/29/76	13	12.0	10.5			7.2	350
20240	W	35	32.594	104.119	2	08	10/30/76	12	22.0	11.0	C		7.4	3000
20244	W	35	32.695	104.197	2	08	10/30/76	14	23.0	13.0			6.3	500
20248	W	35	32.667	104.219	2	08	10/30/76	16	23.0	14.0	C		8.2	250
20252	L	35	32.511	104.193	2	09	10/30/76	17	21.0	20.0			9.4	43000
20256	L	35	32.746	104.111	2	10	10/31/76	12	20.0	18.0			6.9	290
20264	W	35	32.558	104.180	2	08	11/02/76	9	14.0	14.0			7.3	42000
20270	W	35	32.595	104.001	2	08	11/02/76	13	24.0	17.0	C		9.1	30000
20272	W	35	32.626	104.024	2	08	11/02/76	14	25.0	18.0			7.9	27000
20277	W	35	32.574	104.244	2	08	11/02/76	16	19.0	16.0			8.0	500
20282	L	35	32.596	104.347	2	09	11/03/76	12	14.0	15.0	C		7.6	10000
20283	W	35	32.600	104.370	2	08	11/03/76	12	15.0	17.0	C		7.6	49500
20285	W	35	32.696	104.352	2	08	11/03/76	13	20.0	17.0	C		8.2	26000
20290	W	35	32.658	104.248	2	08	11/04/76	10		14.0			7.3	500
20294	W	35	32.701	104.275	2	08	11/04/76	12	16.0	14.0	C		8.8	32000
20297	W	35	32.721	104.291	2	08	11/04/76	13	17.0	16.0	C		8.0	39000
20299	P	35	32.736	104.280	2	06	11/04/76	14	19.0	18.5			7.3	35000
20333	W	35	32.116	104.204	2	08	11/04/76	17	21.0	18.5			7.0	7000
20342	L	35	32.177	104.103	2	09	11/05/76	15	29.0	23.0			8.5	230
20344	W	35	32.165	104.068	2	08	11/05/76	16	25.0	16.0			7.3	290
20346	W	35	32.137	104.072	2	08	11/05/76	17	24.0	16.0	C		8.3	2900
20349	W	35	32.175	104.048	2	08	11/06/76	10	23.0	20.0	C		7.7	8000
20360	P	35	32.412	104.322	2	06	10/30/76	15		16.0			6.9	600
20364	W	35	32.384	104.255	2	08	10/30/76	16	20.0	16.0			7.1	1100
20365	W	35	32.311	104.281	2	08	10/31/76	10	20.0	16.0			6.6	600
20367	W	35	32.270	104.316	2	08	10/31/76	10	20.0	15.0			6.6	550
20370	W	35	32.257	104.389	2	08	10/31/76	11	20.0	14.0			6.6	450
20383	W	35	32.297	104.648	2	08	10/31/76	13	20.0	15.0			6.6	500
20392	W	35	32.272	104.629	2	08	10/31/76	15	16.0	14.0			6.6	500
20405	W	35	32.283	104.843	2	08	11/01/76	7	8.0	10.0			6.9	500
20417	W	35	32.427	104.963	2	08	11/01/76	10	14.0	14.0			6.6	900
20430	W	35	32.397	104.841	2	08	11/01/76	13	16.0	14.0			6.4	1700
20434	W	35	32.368	104.940	2	08	11/01/76	15	14.0	9.0			6.4	1500
20442	W	35	32.337	104.904	2	08	11/02/76	8	12.0	10.0			6.5	700
20469	S	35	32.247	104.697	2	07	10/31/76	11	20.0	9.0	C		6.8	600
20493	W	35	32.084	104.838	2	08	11/04/76	15	20.0	12.0			6.9	550

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCUL	STYP	SCUL	FLOW	WCOL	RELF	SKY	TWE	DIAM (INCHES)	W-UP (FEET)	WATO (FEET)
20J96	1	9	1	7			2	1	2	1	1			
20101	1	3	1	7				1	2	1	4			
20104	1	3	1	7				1	2	1	8			
20114	1	3	1	7				1	3	1				
20133	1		1	7				1	2	1	8			
20136	1	14	1	7				1	2	1	8			
20136	1	6	1	7				1	2	1	1			
20140	1	9	1	7				1	2	1	1			
20154	1	16	1	7					2	1				
20155	1	11	1	7			2	1	2	1				
20172	1	3	1	7					2	1	3			
20177	1	8	1	7					2	1	9			
20187	1	3	1	7			3	1	2	1	3			
20190	1	4	1	7			3	1	2	1	3			
20198	1	11	1	7			3	1	2	1	1			
20202	1	3	1	6	6	6	2	1	1	1				
20204		6	1	4					1	1	1			
20215	1	9	1	4				1	1	5	1			
20220	1	6	1	4				1	1	3	1			
20229	1	8	1	4	5	9		4	1	2				
20240	1	12	1	4				1	1	1	1			
20244	1	3	1	4					1	1	1			
20248	1	18	1	4					1	1	1	5		
20252	1	15	1	4	5	8	1	5	2	1				
20255	1	10	1	4	5	6		4	1	1				
20254	1	2	1	4				1	1	1	1			
20270	1	7	1	4				1	1	1	1			
20272	1	4	1	4				1	1	1	1			
20277	1	12	1	4				1	1	1	1			
20282	1	10	1	4	5	6		1	2	2				
20283	1	8	1	4				1	1	2	1			
20285	1	8	1	4				1	1	1	3			
20290	1	5	1	4				1	1	1	1			
20294	1	8	1	4				1	1	1	1			
20297	1	5	1	1				1	2	1	1			
20299	3	2	1	1	4	4		1	4	1				
20338	1	9	1	7				1	1	1	1	5		
20342	1	9	1	7	5	6	1	2	2	1				
20344	1	9	1	7					1	1	1	5		
20346	1	6	1	7					2	1	1	6		
20349	1	6	1	6					1	1	1	6		
20350	1	11	1	7	6	7	3	1	2	1				
20364	1	6	1	7			3	1	2	1				
20365	1	14	1	7			3	1	2	1	3			
20367	1	11	1	7			3	1	2	1	3			
20370	1	9	1	7			3	1	2	1	1			
20383	1	11	1	7			3	1	2	1	1			
20392	1	4	1	7			3	1	3	1	1			
20405	1	9	1	7			3	1	3	1	9			
20417	1	8	1	7			3	1	3	1	1			
20430	1	11	1	7			3	1	3	1				
20438	1	12	1	7			3	1	3	1	4			
20442	1	14	1	7			3	1	2	1	4			
20469	1	8	1	7	4	6	3	1	4	1				
20493	1	11	1	7			3	1	2	1	8			

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	U	AG	AL	BI	BA	BE	CA	CE	CO	CR	CU	FE	K	LI	MG
20075	1.13	<2	1484	222	418	<1	264.7	<30	8	<4	84	1165	15.9	62	184.0
20101	1.57	3	555	205	144	<1	591.3	66	12	21	415	1363	8.4	36	197.0
20104	0.52	<2	241	181	60	<1	62.0	<30	<2	<4	34	287	7.2	50	98.0
20114	1.42	<2	147	96	62	<1	979.7	<30	<2	<4	18	233	14.0	32	102.5
20133	2.19	<2	110	145	59	<1	394.6	<30	<2	<4	6	5939	4.1	59	134.3
20135	2.05	<2	307	340	42	<1	1055.0	<30	<2	<4	28	1398	11.7	101	518.6
20138	1.19	<2	134	215	133	<1	107.8	<30	<2	<4	25	127	1.5	476	113.6
20140	1.07	<2	354	233	199	<1	151.6	<30	<2	4	29	295	2.2	108	158.5
20154	0.37	6	442	135	134	<1	55.5	46	<2	13	31	633	12.2	37	59.9
20165	1.38	2	500	224	124	<1	606.7	<30	<2	6	9	373	6.1	66	239.5
20172	1.74	12	1118	191	107	<1	143.2	74	13	21	15	717	5.8	64	121.3
20177	0.62	<2	691	198	101	<1	145.8	<30	<2	11	12	431	5.9	172	128.1
20187	1.46	<2	371	259	506	<1	378.4	<30	<2	4	30	304	9.7	56	228.3
20193	0.47	4	452	204	406	<1	296.4	55	<2	9	27	404	7.2	49	175.2
20198	2.09	<2	130	734	97	<1	146.4	41	<2	4	69	128	7.2	100	158.0
20202	0.69	<2	258	173	199	<1	177.5	37	<2	6	38	343	23.2	30	44.5
20234	3.59	<2	309	1621	50	<1	1705.0	37	<2	<4	74	1221	24.3	494	589.6
20215	3.70	<2	765	2259	61	<1	2557.0	62	5	12	72	601	34.9	348	566.6
20220	4.57	<2	632	1550	70	<1	2034.0	<30	<2	<4	92	1203	26.3	418	683.4
20228	0.96	<2	5379	201	576	<1	131.8	<30	<2	16	128	3764	86.8	28	15.6
20243	8.70	<2	532	1027	57	<1	1466.0	<30	<2	9	53	511	51.9	363	278.7
20244	2.46	<2	65	220	68	<1	118.1	<30	<2	<4	40	53	4.8	70	45.0
20248	0.31	<2	98	38	28	<1	30.2	<30	<2	<4	218	314	15.4	9	4.0
20252	8.78	<2	677	916	63	<1	540.7	<30	<2	<4	106	511	118.1	741	1375.0
20256	0.50	<2	790	46	136	<1	59.1	<30	<2	<4	22	343	20.3	<2	<0.1
20264	19.70	<2	428	2050	64	<1	2292.0	61	<2	7	172	570	30.2	783	503.9
20273	0.73	<2	1001	722	196	<1	3437.0	49	<2	23	141	975	231.6	533	59.3
20272	7.22	<2	231	382	34	<1	1207.0	60	<2	5	33	197	6.2	132	87.3
20277	1.62	<2	219	251	1175	<1	244.3	46	<2	<4	43	204	20.2	76	15.8
20282	7.80	3	313	947	126	<1	1100.0	34	<2	4	32	318	11.8	113	303.8
20283	9.83	2	222	357	34	<1	769.2	<30	<2	<4	52	157	6.4	70	189.3
20295	4.58	<2	819	175	170	<1	524.3	<30	6	8	18	523	35.3	85	179.1
20290	2.40	6	484	88	865	<1	188.5	45	2	12	92	359	7.7	38	19.2
20294	3.50	<2	457	1099	46	<1	737.8	<30	<2	<4	17	387	7.5	163	239.7
20297	9.60	<2	716	1742	40	<1	908.6	<30	2	5	25	495	12.8	224	260.1
20299	5.50	<2	252	897	27	<1	772.5	<30	<2	<4	17	206	6.8	132	163.1
20338	10.50	<2	328	1389	21	<1	573.2	<30	<2	6	41	366	12.4	221	475.9
20342	0.76	3	1725	163	977	<1	124.9	40	4	35	115	1498	73.1	26	19.0
20344	7.40	<2	796	418	79	<1	1655.0	<30	<2	11	70	1572	15.5	772	252.7
20345	6.18	<2	3318	729	142	<1	2136.0	37	2	15	82	2124	24.7	272	362.8
20349	3.13	2	363	586	114	<1	1214.0	41	10	14	33	1215	65.1	202	297.4
20360	2.01	<2	153	121	352	<1	142.0	<30	<2	<4	6	133	2.1	30	79.8
20364	1.03	<2	387	796	178	<1	854.4	<30	<2	5	57	390	14.2	192	387.6
20365	1.03	<2	113	172	163	<1	198.2	<30	<2	<4	202	101	4.8	44	80.1
20367	0.82	<2	101	197	186	<1	228.3	<30	<2	<4	223	125	5.2	48	88.9
20373	0.24	<2	533	115	276	<1	91.7	<30	<2	6	39	211	4.1	30	89.7
20393	1.19	<2	194	141	381	<1	124.6	<30	<2	<4	22	144	4.4	39	67.2
20392	0.46	<2	154	70	436	<1	147.9	<30	<2	<4	45	142	4.8	14	72.7
20435	1.25	<2	67	76	84	<1	76.7	<30	<2	<4	13	81	2.5	17	92.6
20417	1.13	<2	1070	470	161	<1	709.6	<30	<2	5	31	633	12.3	333	407.8
20430	0.83	2	368	277	41	<1	691.2	<30	6	7	17	267	3.0	129	183.0
20439	0.51	10	812	351	52	<1	817.7	78	13	19	20	383	5.1	207	250.4
20442	0.19	2	741	74	44	<1	152.7	<30	8	4	10	288	2.3	33	70.9
20469	0.60	4	496	85	280	<1	170.5	<30	<2	18	33	314	3.6	15	108.1
20493	0.37	6	104	78	146	<1	95.5	41	<2	124	11	94	5.5	12	84.9

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	MN	MO	NA	NI	P	SC	SI	SR	TI	V	Y	ZN	ZR
20096	45	<4	96.8	69	56	<1	18.6	1425	28	<4	<1	309	<2
20101	245	6	38.4	624	188	1	24.4	4632	13	12	3	1523	12
20104	40	7	39.7	28	80	<1	33.8	281	3	6	<1	503	3
20114	77	35	15.5	11	<40	3	13.9	14950	18	<4	<1	193	<2
20133	41	31	36.5	7	<40	<1	18.6	3645	5	5	<1	337	<2
20136	178	<4	51.1	<4	<40	7	20.8	17295	32	<4	<1	442	<2
20138	12	<4	108.0	<4	<40	3	34.9	842	10	<4	<1	240	<2
20140	18	<4	101.8	9	<40	<1	49.4	1162	6	50	<1	514	9
20154	34	11	53.0	105	66	<1	21.7	363	7	52	2	463	14
20166	30	<4	50.1	23	<40	<1	28.9	5158	12	11	1	413	<2
20172	46	17	63.8	51	<40	<1	29.8	1604	16	53	3	629	20
20177	38	8	77.4	50	<40	<1	29.8	1650	8	40	<1	639	<2
20197	28	17	69.4	33	<40	<1	41.2	2070	8	19	<1	1005	<2
20193	28	11	53.3	29	<40	<1	31.6	1659	17	23	2	1631	16
20198	14	15	269.3	19	<40	<1	19.2	961	<2	20	1	501	5
20202	63	17	169.6	17	167	<1	9.8	2247	5	8	2	154	4
20204	101	46	750.1	42	<40	7	23.0	32234	43	<4	2	817	5
20215	62	15	1032.0	73	<40	9	56.9	25542	79	94	6	313	26
20220	236	<4	907.6	<4	<40	2	58.2	27912	51	<4	<1	1435	<2
20228	70	18	10.2	34	877	<1	43.7	421	77	17	2	210	7
20240	76	43	193.9	200	<40	3	37.6	24824	34	13	2	1324	<2
20244	9	<4	15.4	63	<40	<1	31.3	1411	<2	48	<1	523	<2
20248	10	<4	7.2	48	55	<1	5.9	214	<2	<4	<1	255	<2
20252	123	384	4411.0	293	<40	5	2.6	16391	38	<4	<1	1093	<2
20255	16	9	<0.1	17	112	<1	4.3	4	9	15	1	71	<2
20264	60	61	985.8	20	<40	7	63.2	52157	58	336	5	513	14
20270	45	142	275.4	21	<40	9	69.5	55093	90	105	5	307	14
20272	33	13	107.3	16	<40	3	36.7	10763	24	24	2	1363	6
20277	17	14	18.8	11	<40	<1	31.7	847	4	37	<1	254	5
20282	56	13	1535.0	60	<40	5	3.7	18002	31	9	3	90	8
20283	24	11	608.1	5	<40	3	11.6	11428	20	8	1	3373	<2
20285	419	<4	115.1	20	<40	<1	7.1	9796	14	9	2	97	12
20293	17	<4	5.8	<4	<40	<1	40.2	1138	7	62	3	313	16
20294	31	9	106.3	30	<40	2	20.6	12989	20	16	1	80	8
20297	32	22	393.6	13	<40	2	19.8	17614	25	5	1	641	7
20299	15	21	146.1	5	<40	4	15.3	11322	21	23	1	252	<2
20338	43	14	651.2	37	<40	3	16.5	13729	18	8	2	953	13
20342	81	22	27.6	92	1594	<1	3.1	1077	18	44	2	1293	5
20344	56	14	76.1	28	<40	4	73.1	36255	38	32	-	1239	6
20346	148	23	477.0	42	<40	7	24.5	17568	93	6	4	1883	10
20349	428	15	1347.0	23	<40	5	1.3	15247	34	6	3	273	7
20360	9	<4	19.4	<4	<40	<1	19.5	596	3	28	<1	510	<2
20364	68	22	129.8	9	<40	2	63.4	11166	15	55	1	4375	7
20365	10	<4	22.1	7	<40	<1	23.7	1465	<2	25	<1	736	4
20367	15	17	24.1	4	<40	1	25.0	1696	4	24	<1	932	<2
20370	17	<4	24.1	28	<40	<1	20.3	318	2	24	<1	619	<2
20383	10	<4	41.3	<4	<40	<1	29.5	739	<2	36	<1	441	<2
20392	19	<4	9.9	12	<40	<1	16.3	452	<2	<4	<1	881	<2
20405	8	4	19.7	23	<40	<1	14.1	315	<2	<4	<1	192	<2
20417	42	9	98.8	36	<40	1	68.9	18184	26	<4	<1	653	<2
20430	35	7	40.0	35	<40	2	20.3	15201	16	5	2	1292	5
20438	40	25	61.8	51	<40	<1	25.7	19125	6	36	5	1853	25
20442	15	<4	22.7	20	<40	<1	15.9	2266	8	4	1	392	5
20469	16	14	22.4	22	<40	1	17.3	659	7	6	<1	293	<2
20493	29	43	18.3	17	300	<1	11.2	480	2	5	2	91	13

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	CUMM	MEAS	PH	CT-F
20500	W	35	32.155	104.793	2	08	11/05/76	7	8.0	10.0			6.4	550
20502	W	35	32.184	104.348	2	08	10/31/76	12	23.0	14.5	C		7.8	3000
20506	P	35	32.184	104.435	2	06	10/31/76	13	21.0	9.0	L		8.0	400
20522	P	35	32.244	104.376	2	06	11/02/76	9	23.0	8.0			9.0	700
20523	P	35	32.231	104.383	2	06	11/02/76	9	23.0	9.0			9.4	550
20526	P	35	32.207	104.409	2	06	11/02/76	10	26.0	9.0			9.1	450
20544	P	35	32.048	104.339	2	06	11/04/76	14	27.0	14.5			6.6	2500
20545	S	35	32.087	104.316	2	07	11/04/76	14	24.0	13.0			7.3	2800
20546	P	35	32.080	104.358	2	06	11/04/76	14	24.0	13.0			7.4	3000
20543	W	35	32.107	104.273	2	08	11/04/76	15	24.0	13.0			7.3	4100
20550	W	35	32.106	104.262	2	08	11/04/76	15	23.0	12.5			7.3	3000
20563	W	35	32.072	104.790	2	08	11/05/76	10	16.0	10.0			6.8	520
20566	W	35	32.121	104.717	2	08	11/05/76	12	20.0	12.0			6.5	500
20572	W	35	32.188	104.747	2	08	11/05/76	14	20.0	12.0			6.9	580
20573	W	35	32.205	104.707	2	08	11/05/76	14	20.0	10.0			6.8	550
20575	P	35	32.235	104.686	2	06	11/06/76	10	10.0	12.0	L		6.4	500
20577	W	35	32.203	104.694	2	08	11/06/76	10	18.0	12.0			6.4	600
20580	P	35	32.175	104.646	2	06	11/06/76	11	18.0	10.0	C		6.9	550
20583	P	35	32.152	104.643	2	06	11/06/76	12	20.0	11.0	L		6.9	550
20587	P	35	32.203	104.580	2	06	11/06/76	13	20.0	14.0	C		6.8	800
20588	P	35	32.217	104.565	2	06	11/06/76	13	20.0	13.0	C		6.6	1500
20595	P	35	32.221	104.532	2	06	11/06/76	14	18.0	12.0	C		6.6	2000
20597	P	35	32.206	104.503	2	06	11/06/76	14	18.0	12.0	C		6.9	800
20598	P	35	32.221	104.546	2	06	11/06/76	15	18.0	14.0	C		6.6	1600
20599	P	35	32.248	104.555	2	06	11/06/76	15	18.0	13.0	C		6.8	1000
20601	W	35	32.568	104.087	2	08	11/04/76	15	16.0	17.0	L		7.8	28000
20604	W	35	32.730	104.378	2	08	11/06/76	10	19.0	20.0			7.2	10000
20605	W	35	32.725	104.448	2	08	11/06/76	11	19.0	15.0			8.0	10000
20607	W	35	32.697	104.468	2	08	11/06/76	11	22.0	16.0	C		7.4	10000
20609	W	35	32.689	104.430	2	08	11/06/76	12	23.0	18.0			8.4	11000
20612	W	35	32.664	104.463	2	08	11/06/76	12	24.0	18.0	L		7.9	17000
20615	W	35	32.603	104.462	2	08	11/06/76	14	25.0	18.0			7.6	15000
20619	W	35	32.537	104.395	2	08	11/06/76	16	24.0	18.0			8.0	9000
20625	W	35	32.577	104.447	2	08	11/07/76	15	12.0	15.0	L		7.1	29000
20627	W	35	32.634	104.446	2	08	11/07/76	16	12.0	12.0	C		7.8	13000
20629	W	35	32.652	104.399	2	08	11/07/76	17	12.0	11.0	C		7.9	16000
20630	W	35	32.612	104.551	2	08	11/08/76	9	18.0	11.5	C		7.8	18000
20633	W	35	32.590	104.618	2	08	11/08/76	10	19.0	12.0			7.9	21000
20634	W	35	32.580	104.550	2	08	11/08/76	11	20.0	12.0			7.2	15000
20635	W	35	32.591	104.508	2	08	11/08/76	11	20.0	13.0			7.8	14500
20639	W	35	32.536	104.602	2	08	11/08/76	13	22.0	18.0			7.5	12000
20642	W	35	32.536	104.565	2	08	11/08/76	14	23.0	19.0			7.5	18000
20645	W	35	32.559	104.506	2	08	11/08/76	15	24.0	20.0			7.5	22500
20647	W	35	32.527	104.506	2	08	11/08/76	16	23.0	13.0			7.5	25000
20649	P	35	32.522	104.506	2	06	11/08/76	16	22.0	13.0			6.7	25000
20653	W	35	32.121	104.337	2	08	11/04/76	16	23.0	11.0			7.5	2800
20725	L	35	32.036	104.136	2	10	11/08/76	10	19.0	12.0			9.7	750
20751	P	35	32.248	104.662	2	06	11/06/76	14	16.0	14.0	L			
20753	W	35	32.247	104.638	2	08	11/06/76	16	16.0	14.0			6.6	550
20757	W	35	32.021	104.535	2	08	11/07/76	10	10.0				6.8	600
20769	W	35	32.034	104.612	2	08	11/01/76	13	14.0	12.0	C		6.5	550
20772	W	35	32.034	104.632	2	08	11/07/76	13	14.0	12.0			6.5	400
20773	P	35	32.043	104.656	2	06	11/07/76	14	14.0	11.0	C		6.4	600
20805	W	35	32.077	104.111	2	08	11/06/76	14	27.0	21.0			7.8	
20806	S	35	32.022	104.055	2	07	11/06/76	15	26.0	15.0			7.7	2800

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMP_E	CMT	SCIN	RTYP	RCCL	STYP	SCOL	FLOW	WCOL	RELF	SKY	TWE	DIAM (INCHES)	W-OP (FEET)	WATD (FEET)
20500	1	12	1	7			3	1	2	1	4			
20502	1	7	1	6			2	1	2	1				
20505	1	5	1	6			2	1	4	1				
20522	1	5	1	7	5	7	2	1	3	1				
20523	1	5	1	7	5	6		1	3	1				
20526	1	5	1	7	5	6		1	3	1				
20544	1	5	1	7	5	7			3	1				
20545	1	3	1	2	5		2	1	2	1				
20546	1	5	1	7	4	8	2	1	2	1				
20548	1	5	1	7			3	1	2	1				
20550	1	5	1	7			2	1	2	1				
20563	1	12	1	7			3	1	3	1	4			
20566	1	12	1	7			3	1	3	1	4			
20572	1	5	1	7			3	1	3	1				
20573	1	16	1	7			3	1	3	1	4		760	
20576	1	3	1	7			3	1	3	1				
20577	1	3	1	7			3	1	3	1	4			
20580	1	3	1	7			3	1	3	1				
20583	1	3	1	7			3	1	3	1				
20587	1	3	1	7			3	1	3	1				
20593	1	5	1	7			3	1	3	1				
20595	1	5	1	7			3	1	3	1				
20597	1	3	1	7			3	1	3	1				
20598	1	5	1	7			3	1	3	1				
20599	1	3	1	7			3	1	3	1				
20601	1	3	1	4			1	1	1	1	1			
20604	1	3	1	1			1	1	1	1	3			
20605	1	5	1	4			1	1	1	1	1			
20607	1	5	1	1			1	1	1	1	3			
20609	1	3	1	1			1	1	1	1	1			
20612	1	3	1	1			1	1	1	1	1			
20615	1	3	1	1			1	1	1	1	1			
20619	1	3	1	1			1	1	1	1	1			
20626	1	3	1	1			1	1	1	2	8			
20627	1	3	1	1			1	1	1	2	1			
20629	1	5	1	1			1	1	1	2	1			
20630	1	3	1	1			1	1	1	1	1			
20633	1	3	1	1			1	1	1	1	1			
20634	1	2	1	1			1	1	1	1	8			
20635	1	3	1	1			1	1	1	1	1			
20639	1	3	1	1			1	1	1	1	1			
20642	1	5	1	1			1	1	1	1	1			
20645	1	5	1	4			1	1	1	1	1			
20647	1	3	1	1			1	1	1	1	1			
20649	1	3	1	1	4	4	2	1	2	1				
20653	1	13	1	6				2	2	1				
20725	1	3	1	6	5	6		2	2	1				
20751	1	5	1	7			3	1	3	1				
20753	1	3	1	7			3	1	3	1	1			
20757	1	5	1	7			3	1	2	3	4			
20769	1	5	1	7			3	1	2	2	1			
20772	1	3	1	7			3	1	2	2	1			
20773	1	3	1	7			3	1	3	2				
20905	1	5	1	7				3	2	1	1			
20906	1	5	1	7	5	8	2	2	2	1				

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	U	AG	AL	D	BA	DE	CA	CE	CU	CR	CU	F ₂	K	LI	MG
20500	1.24	<2	199	81	193	<1	129.2	<30	<2	<4	12	165	3.7	16	116.7
20502	4.86	<2	336	1097	28	<1	1014.0	<30	<2	<4	36	251	6.4	218	144.6
20506	0.88	7	338	47	80	<1	68.7	<30	6	5	16	256	2.6	10	55.7
20522	1.30	<2	240	52	126	<1	96.0	<30	<2	<4	19	105	3.2	19	76.4
20523	0.70	<2	521	221	450	<1	281.1	<30	2	10	98	385	19.8	75	280.5
20526	1.52	<2	1228	126	299	<1	85.9	<30	<2	<4	77	759	6.6	29	83.6
20544	5.94	3	321	299	42	<1	1071.0	57	<2	<4	27	186	11.3	102	36.0
20545	4.42	<2	561	1718	59	<1	1142.0	30	<2	<4	38	344	17.5	407	172.3
20546	9.23	<2	848	508	61	<1	1304.0	<30	<2	<4	28	547	15.3	142	237.0
20548	7.06	<2	970	2245	42	<1	824.9	<30	<2	<4	38	565	21.4	389	327.8
20550	2.50	<2	5681	1467	125	<1	2545.0	51	<2	5	131	4129	21.0	738	350.6
20563	0.79	<2	121	24	47	<1	40.1	<30	4	<4	6	46	2.9	<2	98.0
20566	0.37	<2	239	53	256	<1	122.8	<30	2	7	16	151	7.7	12	128.3
20572	0.62	<2	186	62	164	<1	117.4	<30	<2	<4	17	175	2.5	12	84.0
20573	0.45	2	121	42	48	<1	55.1	<30	3	<4	4	117	2.5	9	75.4
20576	0.29	<2	240	183	579	<1	343.7	<30	<2	5	56	245	6.4	31	200.0
20577	0.24	4	100	87	277	<1	175.9	<30	2	6	23	95	3.2	15	101.0
20580	0.78	8	187	65	275	<1	150.5	64	<2	18	10	101	2.4	12	120.5
20583	0.29	8	221	38	188	<1	91.9	48	<2	8	48	205	1.6	7	76.4
20587	1.23	2	471	155	76	<1	244.5	30	3	13	23	325	6.2	33	102.1
20588	2.64	<2	518	299	48	<1	358.1	<30	<2	<4	15	255	3.6	122	107.6
20595	3.02	<2	155	394	51	<1	491.3	<30	<2	<4	8	100	4.4	146	142.9
20597	0.52	2	294	120	60	<1	199.6	<30	<2	4	16	225	4.7	24	80.6
20598	6.54	<2	529	915	126	<1	1058.0	<30	<2	<4	38	395	9.4	539	315.9
20599	7.41	<2	756	175	86	<1	266.7	<30	<2	6	13	227	8.6	46	128.6
20601	8.90	<2	955	965	38	<1	886.1	<30	4	9	32	627	35.3	209	238.3
20604	7.55	<2	331	99	34	<1	269.4	<30	<2	<4	16	265	2.7	25	-89.2
20605	1.71	4	215	91	31	<1	222.8	<30	<2	<4	14	105	3.6	39	87.3
20607	2.44	8	63	59	30	<1	177.1	45	<2	7	6	55	3.2	17	59.3
20609	2.32	<2	322	73	28	<1	158.6	<30	7	<4	14	219	2.8	72	93.9
20612	1.97	2	342	127	17	<1	391.5	<30	<2	5	9	125	2.6	72	77.0
20615	3.98	<2	81	93	26	<1	287.5	<30	<2	<4	<2	65	3.8	35	117.8
20619	3.03	6	464	224	50	<1	85.9	57	7	17	26	155	4.5	68	76.6
20626	4.45	<2	179	158	28	<1	449.1	<30	<2	<4	9	93	3.3	53	178.2
20627	3.58	<2	3061	356	180	<1	939.7	<30	3	45	69	1475	13.8	901	397.8
20629	1.80	7	661	114	28	<1	336.2	<30	6	16	15	222	4.3	45	121.2
20630	0.66	4	243	265	80	<1	321.9	<30	<2	<4	35	135	7.6	59	184.0
20633	0.93	<2	965	246	42	<1	587.6	<30	<2	6	22	472	5.1	74	205.6
20634	2.06	<2	431	76	27	<1	315.3	<30	<2	<4	13	255	2.5	26	119.4
20635	3.12	<2	362	121	34	<1	457.5	<30	3	7	14	205	6.5	50	174.4
20639	2.63	3	416	91	23	<1	248.0	<30	6	<4	15	505	3.2	26	95.3
20642	2.05	<2	1118	200	46	<1	537.5	<30	<2	20	24	945	4.3	61	228.1
20645	1.57	<2	538	162	24	<1	467.9	<30	<2	10	8	10054	2.4	44	141.6
20647	1.60	<2	404	2558	29	<1	964.2	<30	<2	<4	26	317	13.7	580	235.2
20649	2.22	<2	228	1735	44	<1	981.4	<30	<2	6	16	225	8.5	150	224.4
20553	1.75	<2	1520	2066	67	<1	1813.0	<30	<2	<4	206	1255	16.9	495	158.7
20725	3.33	<2	2045	63	464	<1	242.8	<30	<2	<4	234	1135	34.5	8	10.1
20751	0.30	2	39	35	56	<1	66.8	<30	6	<4	7	51	2.2	7	66.3
20753	0.23	4	625	53	137	<1	95.3	<30	<2	20	18	245	3.5	11	91.6
20757	0.23	3	90	38	218	<1	141.5	39	7	5	28	88	2.2	10	43.9
20769	0.76	<2	210	82	342	<1	157.0	<30	3	<4	22	185	2.2	11	72.6
20772	0.25	<2	509	50	139	<1	138.2	<30	<2	<4	26	211	5.5	8	92.5
20773	0.20	<2	169	111	76	<1	83.0	<30	<2	<4	21	125	10.3	14	98.6
20905	0.67	<2	380	47	170	<1	109.0	<30	<2	<4	12	215	16.2	9	9.3
20906	6.03	<2	350	390	63	<1	760.3	<30	<2	<4	9	171	6.6	108	82.0

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	MN	MD	NA	NI	P	SC	SI	SR	TI	V	Y	ZK	
20500	12	<4	24.7	26	<40	<1	23.5	516	3	<4	<1	31.7	<2
20502	20	<4	109.7	13	<40	3	11.5	16479	19	32	1	111	3
20506	8	<4	14.4	10	135	<1	9.9	220	4	20	1	8.7	13
20522	15	<4	18.6	4	667	<1	9.0	340	<2	<4	<1	106	<2
20523	39	7	68.8	29	200	1	5.2	1134	10	13	2	196	10
20526	24	<4	32.3	29	59	1	21.6	533	27	19	<1	48.7	<2
20544	30	<4	33.8	6	<40	3	14.8	14915	19	9	1	72	5
20545	32	36	138.7	<4	<40	4	3.5	19034	27	<4	<1	9.5	<2
20546	57	7	116.8	<4	<40	4	4.8	16883	33	<4	<1	87	<2
20548	40	16	310.1	13	<40	4	3.6	14193	28	<4	1	126	8
20550	127	41	277.8	51	41	5	74.5	54540	112	6	1	75.9	<2
20563	12	<4	6.1	17	<40	<1	7.8	<2	<2	<4	<1	9.0	<2
20565	15	<4	13.6	7	<40	<1	13.6	367	<2	10	1	25.9	2
20572	9	<4	15.4	<4	<40	<1	12.4	357	4	<4	<1	93.5	<2
20573	5	<4	21.5	<4	<40	<1	7.5	100	2	9	2	36.6	7
20576	18	<4	50.8	4	<40	<1	31.1	1038	7	14	<1	641.4	<2
20577	7	<4	25.3	<4	<40	<1	16.0	513	3	5	2	322.6	4
20580	10	<4	14.2	16	<40	<1	11.8	408	3	<4	2	9.5	16
20583	12	<4	8.9	139	<40	<1	7.8	261	2	<4	2	82.5	16
20587	20	14	31.7	28	<40	<1	19.9	1547	4	41	2	95.5	4
20588	13	25	48.8	13	<40	<1	11.9	3242	7	8	<1	48.5	<2
20595	15	22	61.3	9	<40	<1	14.9	4319	6	<4	<1	42.9	<2
20597	17	<4	23.5	19	41	<1	15.9	1232	4	19	<1	24.5	<2
20599	38	40	125.9	26	<40	3	32.5	9904	26	<4	<1	121.3	<2
20599	15	<4	43.2	14	<40	<1	24.4	1757	7	15	<1	53.5	<2
20601	46	17	84.1	10	<40	2	19.0	13623	27	36	1	691	5
20604	18	<4	40.0	<4	<40	<1	14.2	3943	5	4	<1	48.8	<2
20605	11	11	44.7	20	<40	<1	25.5	3412	2	8	<1	167.1	11
20607	70	<4	20.6	5	<40	<1	11.8	2278	2	9	1	84.9	15
20609	8	10	47.1	4	<40	<1	22.6	4646	6	<4	1	31.3	7
20612	11	3	38.7	7	<40	<1	16.9	6089	5	12	<1	53.3	<2
20615	20	<4	36.6	<4	<40	<1	13.0	5071	<2	<4	<1	43.5	<2
20619	12	17	73.1	<4	<40	<1	12.4	965	2	22	2	43.3	10
20626	13	<4	42.2	<4	<40	<1	14.2	6685	7	<4	<1	57.6	<2
20627	4282	55	105.4	16	58	2	39.7	16671	49	<4	1	341.5	<2
20629	37	<4	44.7	32	43	1	12.6	5254	8	7	2	82.3	13
20630	17	7	164.2	10	<40	<1	22.0	6913	5	7	1	81.5	5
20633	68	12	72.9	18	<40	<1	15.6	10071	16	<4	1	224.6	<2
20634	12	5	20.2	13	<40	<1	10.6	4457	7	<4	<1	137.1	<2
20635	192	12	38.2	30	<40	1	13.8	6658	9	<4	1	156.6	2
20639	50	7	25.7	10	<40	<1	14.3	3341	6	<4	<1	91.0	<2
20642	39	<4	49.2	17	<40	1	21.5	8952	13	9	1	113.6	<2
20645	64	19	30.3	5	<40	1	13.0	6229	13	<4	<1	62.6	<2
20647	34	23	171.7	5	<40	2	25.4	17556	22	7	<1	205.2	<2
20649	40	<4	105.5	14	<40	3	14.6	17642	20	21	2	14.5	9
20653	89	53	88.0	18	<40	5	25.1	34819	52	11	<1	31.0	<2
20725	228	10	9.7	45	122	1	10.5	1021	30	<4	<1	25.6	<2
20751	8	<4	10.1	<4	<40	<1	7.8	181	<2	4	<1	20.5	3
20753	17	4	15.7	26	<40	<1	11.1	268	3	<4	<1	57.8	2
20757	17	<4	7.9	10	<40	<1	9.8	611	2	11	2	25.5	4
20769	11	<4	21.6	<4	<40	<1	14.4	612	<2	<4	<1	93.2	<2
20772	12	<4	17.7	<4	<40	<1	9.0	426	4	<4	<1	281	<2
20773	11	<4	138.4	<4	<40	<1	7.9	338	<2	<4	<1	271	<2
20805	168	13	9.9	5	48	<1	4.7	1233	3	<4	<1	17.1	<2
20906	50	7	136.7	<4	<40	1	8.2	10675	13	<4	1	6.1	<2

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	CUMM	MEAS	PH	CT-F
20807	S	35	32.033	104.022	2	07	11/06/76	10	28.0	13.5			7.5	2500
20815	W	35	32.036	104.998	2	08	11/08/76	9	17.0	16.5	C		7.2	4900
20818	W	35	32.001	104.981	2	08	11/08/76	10	25.0	8.0			7.5	6000
21437	W	35	32.849	104.342	2	08	11/24/76	10	13.0	10.5			7.6	1100
21445	W	35	32.849	104.254	2	08	11/24/76	12	20.0	13.0	C		6.9	2750
21472	W	35	32.647	104.522	2	08	11/24/76	10	17.0	17.5			7.3	1900
21474	W	35	32.639	104.557	2	08	11/24/76	11	17.0	12.0	C		7.8	2250
21475	W	35	32.631	104.553	2	08	11/24/76	11	17.0		C		7.7	2400
21480	W	35	32.658	104.605	2	08	11/24/76	13	17.0	17.0	C		7.6	1650
21485	W	35	32.682	104.574	2	08	11/24/76	14	17.0	12.5	C		7.8	1550
21486	W	35	32.672	104.539	2	08	11/24/76	14	16.0	12.0			8.2	1550
21487	W	35	32.661	104.509	2	08	11/24/76	15	16.0	17.5	C		7.4	1000
21490	W	35	32.734	104.574	2	08	11/24/76	16	15.0	9.5	C		8.4	800
21491	W	35	32.723	104.604	2	08	11/24/76	16	15.0	9.0	C		8.1	1600
21493	W	35	32.741	104.496	2	08	11/24/76	17	12.0	9.5	C		7.4	950
21494	W	35	32.601	104.652	2	08	11/26/76	11	15.0	17.0			7.4	1400
21496	W	35	32.780	104.481	2	08	11/29/76	12	12.0	16.0	C		6.3	1050
21498	W	35	32.761	104.457	2	08	11/29/76	12	12.0	1.0	C		8.3	1100
21510	W	35	32.970	104.614	2	08	11/24/76	9	10.0	16.0	C		7.7	900
21515	W	35	32.945	104.622	2	08	11/24/76	11	14.0	13.0			7.8	850
21517	W	35	32.913	104.586	2	08	11/24/76	11	15.0	13.0	C		7.4	1100
21520	W	35	32.911	104.618	2	08	11/24/76	12	16.0	14.0	C		7.8	1000
21524	W	35	32.887	104.523	2	08	11/24/76	12	16.0	15.0			7.8	900
21525	W	35	32.847	104.559	2	08	11/24/76	12	16.0	15.0			7.9	900
21526	W	35	32.862	104.571	2	08	11/24/76	13	16.0	14.0			8.5	600
21527	W	35	32.871	104.549	2	08	11/24/76	13	16.0	13.0			7.8	1000
21529	W	35	32.828	104.542	2	08	11/24/76	13	16.0	15.0			8.4	400
21533	W	35	32.815	104.564	2	08	11/24/76	14	17.0	16.0			7.1	700
21536	W	35	32.800	104.507	2	08	11/24/76	15	14.0	16.0	C		8.4	410
21540	W	35	32.782	104.589	2	08	11/24/76	16	13.0	15.0	C		8.2	800
21541	W	35	32.990	104.787	2	08	11/26/76	10	12.0	15.0			7.4	400
21542	W	35	32.995	104.822	2	08	11/26/76	10	12.0	14.0			7.2	500
21549	W	35	32.967	104.964	2	08	11/26/76	11	15.0	11.0			7.8	380
21551	W	35	32.982	104.920	2	08	11/26/76	12	16.0	12.0			7.6	450
21552	W	35	32.942	104.953	2	08	11/26/76	12	16.0	13.0			6.9	500
21557	W	35	32.902	104.986	2	08	11/26/76	13	16.0	16.0			7.2	400
21560	W	35	32.939	104.891	2	08	11/26/76	13	16.0	15.0			6.6	600
21564	W	35	32.878	104.949	2	08	11/26/76	14	16.0	14.0			6.8	350
21567	W	35	32.886	104.856	2	08	11/26/76	14	16.0	14.0			7.6	700
21569	W	35	32.913	104.827	2	08	11/26/76	15	14.0	13.0			7.4	600
21570	W	35	32.878	104.756	2	08	11/26/76	15	14.0	14.0			7.7	900
21575	W	35	32.857	104.819	2	08	11/26/76	16	12.0	13.0			7.2	600
21577	W	35	32.855	104.853	2	08	11/26/76	16	12.0	14.0			6.9	500
21580	W	35	32.925	104.403	2	08	11/29/76	12	1.0	14.0			7.4	2200
21581	W	35	32.928	104.436	2	08	11/29/76	12	1.0	9.0			7.6	2500
21582	W	35	32.926	104.486	2	08	11/29/76	12	1.0	10.0			7.2	2300
21588	W	35	32.978	104.387	2	08	11/29/76	13	<3.0	11.0			7.2	1100
21590	W	35	32.955	104.435	2	08	11/29/76	14	<5.0	11.0	C		7.2	3100
21592	W	35	32.901	104.454	2	08	11/29/76	15	<6.0	9.0			8.3	2500
21593	W	35	32.886	104.391	2	08	11/29/76	15	<6.0	11.0			7.0	4400
21594	W	35	32.875	104.472	2	08	11/29/76	15	<6.0	8.0			8.4	3500
21596	S	35	32.853	104.974	2	07	11/30/76	9	1.0	5.0			8.3	800
21597	S	35	32.828	104.932	2	07	11/30/76	9	1.0	5.0			8.2	800
21600	W	35	32.811	104.947	2	08	11/30/76	10	4.0	5.0	C		9.0	700
21606	W	35	32.832	104.377	2	08	11/29/76	15	7.0	3.0	C		6.5	1050

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	TWEL	DIAM (INCHES)	W-DP (FEET)	WATU (FEET)
20807	1	6	1	7	6	8	2	2	2	1				
20815	1	6	1	7					1	1	1	5		
20818	1	7	1	7					2	1	3	10		
21437	1	4	1	6					1	1	1			
21445	2	6	1	4					2	1	1			
21472	1	7	1	1				1	1	1	3	7	354	
21474	1	8	1	1				1	1	1	1	7	392	
21475	2	2	1	1				1	1	1	1			
21480		8	1	1				1			2			
21485	1	7	1	1				1	1	1	1			
21486	1	7	1	1				1	1	2	1			
21487	2	7	1	1				1	2	2	1			
21490	1	7	1	1				1	1	2	1			
21491	1	7	1	1				1	1	2	1			
21493	1	8	1	1				1	1	2	3	6	150	
21494	1	4	1	1				1	4	1	1			
21496	1	9	1	4				1	1	1	5	8	200	190
21498	1	12	1	6				1	1	1	1			
21510	1	11	1	7			3	1	2	1	3			
21515	1	11	1	7			3	1	2	1	1			
21517	1	8	1	7			3	1	2	1	1			
21520	1	8	1	7			3	1	2	1	1			
21524	1	16	1	7			3	1	2	1	1			
21525	1	3	1	7			3	1	2	1	1		360	
21526	1	9	1	7			3	1	2	1	1			
21527	1	16	1	7			3	1	2	1	1		200	
21529	1	8	1	7			3	1	2	1	1		240	
21533	1	8	1	7			3	1	2	1	1		70	
21536	1	8	1	7			3	1	2	1	1		250	
21540	1	8	1	7			3	1	2	1	1		200	
21541	1	12	1	7			3	1	2	1	1			
21542	1	16	1	7			3	1	2	1	1			
21549	1	12	1	7			3	1	2	1	1			
21551	1	9	1	7			3	1	2	1	1			
21552	1	6	1	7			3	1	2	1	1			
21557	1	6	1	7			3	1	2	1	1			
21560	1	8	1	7			3	1	2	1	1			
21564	1	11	1	7			3	1	2	1	1			
21567	1	12	1	7			3	1	2	1	1			
21569	1	12	1	7			3	1	2	1	1			
21570	1	9	1	7			3	1	2	1	1			
21575	1	9	1	7			3	1	2	1	1			
21577	1	8	1	7			3	1	2	1	1			
21580	1	6	1	7			3	1	2	1	3		140	
21581	1	6	1	7			2	1	2	1	8			
21582	1	8	1	7			3	1	2	1	1			
21588	1	6	1	7			3	1	2	1	4			
21590	1	6	1	7			3	1	2	1	1			
21592	1	8	1	7			3	1	2	1	1			
21593	1	8	1	7			3	1	2	1	3			
21594	1	8	1	7			3	1	2	1	1			
21596	1	3	1	7	5	6	3	1	2	1				
21597	1	3	1	7	4	5	3	1	2	1				
21600	1	6	1	7			3	1	2	1	1			
21606	1	6	1	6					2	1	3	2	60	

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	U	AG	AL	B	BA	BE	CA	CE	CO	CR	CU	FL	K	LI	MG
20807	7.28	<2	728	644	96	<1	1162.0	<30	<2	<4	26	769	11.1	170	136.7
20815	5.60	<2	710	317	42	<1	727.3	<30	3	10	969	1801	18.8	134	381.1
20819	5.35	<2	606	161	30	<1	203.3	<30	<2	4	38	442	35.1	189	183.6
21437	3.37	<2	756	2687	125	<1	2381.0	<30	<2	<4	78	981	51.4	307	517.0
21445	2.23	J	582	794	46	<1	825.7	<30	<2	6	27	569	15.5	92	148.5
21472	1.19	2	286	112	28	<1	357.3	<30	5	6	15	13197	2.1	30	126.4
21474	2.50	<2	237	347	21	<1	467.5	<30	<2	<4	16	327	3.9	117	181.6
21475	2.38	<2	336	220	69	<1	1002.0	<30	<2	<4	25	364	4.0	55	295.4
21480	0.57	<2	1294	650	149	<1	2131.0	<30	<2	37	2304	1012	12.8	214	466.4
21485	4.02	B	106	113	18	<1	517.4	41	4	11	30	132	3.2	31	159.7
21486	2.35	<2	982	164	45	<1	630.1	<30	6	14	26	623	3.8	50	252.9
21487	2.63	<2	165	164	34	<1	247.6	40	2	7	12	1125	1.5	25	89.1
21490	3.98	<2	206	186	52	<1	170.9	<30	<2	4	41	160	3.4	51	81.9
21491	7.84	<2	267	112	31	<1	585.1	<30	5	<4	21	197	2.6	50	84.7
21493	2.42	2	442	79	34	<1	199.3	34	<2	<4	21	401	3.2	39	66.2
21494	2.04	<2	185	143	21	<1	227.1	<30	<2	<4	27	303	2.5	37	69.0
21495	1.91	5	402	132	45	<1	346.6	51	7	10	67	431	2.5	38	44.7
21498	2.30	<2	479	108	46	<1	280.0	<30	2	7	60	419	3.6	24	82.3
21510	2.38	4	64	101	44	<1	270.7	<30	<2	<4	3	45	2.7	25	87.4
21515	1.75	5	408	206	96	<1	502.5	<30	6	5	33	286	5.4	56	167.1
21517	0.57	<2	946	482	213	<1	1201.0	<30	4	<4	200	1755	46.7	119	380.9
21520	1.89	<2	174	107	49	<1	298.9	<30	<2	<4	43	355	11.3	553	86.4
21524	2.37	4	302	911	76	<1	459.7	32	9	7	48	275	4.8	174	150.4
21525	2.58	<2	449	741	79	<1	623.8	<30	<2	4	81	282	6.3	111	200.7
21526	2.63	<2	237	877	118	<1	380.7	<30	<2	8	26	359	7.0	129	197.5
21527	3.12	<2	93	892	70	<1	445.2	<30	<2	<4	20	189	5.0	90	149.6
21529	1.63	<2	210	367	263	<1	356.8	<30	<2	4	66	212	7.5	86	126.6
21533	1.57	<2	32	137	629	<1	219.0	<30	<2	<4	19	102	5.0	18	52.9
21536	0.81	4	125	143	258	<1	112.0	<30	<2	<4	19	95	4.9	44	63.9
21540	0.72	4	129	157	61	<1	221.7	36	2	4	56	147	3.5	67	68.2
21541	0.88	5	55	67	45	<1	75.0	<30	<2	<4	23	44	3.0	16	59.4
21542	0.70	<2	35	114	76	<1	129.0	<30	<2	<4	15	45	5.2	28	104.0
21549	0.04	3	137	57	55	<1	119.7	<30	<2	5	55	124	3.1	55	108.3
21551	0.49	<2	34	47	47	<1	103.5	<30	<2	<4	20	54	2.4	22	92.8
21552	0.20	<2	72	55	56	<1	123.8	<30	<2	<4	23	90	3.8	28	109.6
21557	1.27	<2	253	150	213	<1	460.6	<30	<2	<4	85	2524	6.0	40	150.8
21560	1.20	3	134	114	127	<1	290.1	56	12	6	23	255	3.5	27	87.7
21564	1.05	<2	80	73	57	<1	203.1	<30	<2	<4	32	59	2.9	18	65.3
21567	1.08	<2	117	241	152	<1	544.9	<30	<2	<4	104	94	6.7	65	157.5
21569	1.77	<2	46	113	73	<1	287.1	<30	<2	<4	47	35	3.2	30	95.4
21570	1.20	<2	55	104	68	<1	257.2	<30	<2	5	43	43	3.0	28	88.3
21575	0.95	<2	49	74	59	<1	208.9	<30	3	5	31	34	3.1	18	69.1
21577	0.10	<2	74	50	57	<1	219.3	<30	<2	<4	44	45	2.9	35	79.4
21580	14.90	<2	86	517	85	<1	826.9	<30	<2	<4	25	231	4.6	136	281.7
21581	1.21	9	69	99	26	<1	696.3	33	10	<4	7	75	3.4	31	128.0
21582	1.30	<2	295	146	41	<1	967.2	<30	<2	<4	14	281	4.8	40	182.4
21588	1.28	<2	103	118	38	<1	326.3	<30	<2	<4	12	159	4.7	59	123.1
21590	26.40	<2	197	2844	55	<1	1425.0	<30	<2	<4	40	225	7.9	500	703.9
21592	4.31	<2	471	501	35	<1	1091.0	<30	<2	<4	71	655	17.6	138	450.2
21593	8.07	7	202	721	31	<1	1119.0	<30	<2	5	82	477	6.0	143	642.9
21594	3.82	3	18	177	10	<1	546.8	34	5	5	2	51	5.4	45	175.0
21596	1.26	4	74	81	69	<1	301.8	<30	2	<4	4	74	1.7	13	67.3
21597	1.26	<2	127	224	186	<1	781.1	<30	<2	<4	10	193	4.0	31	103.3
21600	1.26	<2	652	462	272	<1	914.1	<30	6	<4	102	999	21.8	86	397.5
21505	2.70	<2	340	83	24	<1	268.0	<30	<2	9	41	1305	1.7	18	55.5

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	MN	MO	NA	NI	P	SC	SI	SR	TI	V	Y	ZV	ZK
20807	95	23	249.6	4	<40	3	12.4	16647	28	<4	<1	150	<2
20815	123	14	872.1	9	318	2	22.9	16187	23	8	3	975	<2
20819	35	29	1229.0	5	<40	2	8.8	3885	16	<4	1	5301	<2
21437	153	14	253.4	70	196	6	8.7	36905	61	<4	3	177	<2
21445	49	16	76.0	33	107	2	3.4	10757	21	4	3	75	5
21472	73	<4	25.3	59	<40	1	9.1	5627	7	<4	1	5754	<2
21474	240	<4	67.3	49	<40	<1	13.4	9315	9	<4	<1	334	<2
21475	1225	6	41.1	123	<40	2	12.6	13974	21	<4	1	562	<2
21480	107	31	63.0	252	<40	4	80.0	30748	55	67	4	9333	8
21485	17	38	28.3	32	<40	<1	15.1	7558	8	16	2	133	20
21486	26	17	41.2	40	<40	<1	23.3	10204	22	12	1	162	8
21487	260	<4	41.6	17	<40	<1	17.4	3683	4	12	1	1103	12
21490	20	6	63.7	27	<40	<1	18.1	3256	5	<4	<1	104	16
21491	19	<4	41.2	16	<40	<1	23.4	8016	9	<4	<1	3012	6
21493	16	<4	34.9	33	<40	<1	28.1	3054	6	<4	1	249	<2
21494	18	<4	23.8	13	<40	<1	13.3	3600	2	<4	<1	199	<2
21496	42	<4	40.3	43	<40	<1	21.5	2956	8	18	2	3690	4
21498	45	<4	43.0	431	<40	<1	16.9	3779	7	<4	<1	850	<2
21510	7	4	37.0	7	<40	<1	14.9	3644	2	5	<1	130	<2
21515	21	11	70.9	4	<40	1	28.0	7117	12	15	1	255	5
21517	271	23	125.8	133	1603	3	49.6	18568	32	10	2	1929	6
21520	59	27	79.3	23	391	<1	11.8	4095	4	<4	<1	415	<2
21524	251	13	176.4	15	<40	1	41.6	6683	8	4	2	3264	6
21525	66	21	128.6	26	<40	1	49.3	8486	15	<4	1	5767	3
21526	29	11	182.2	7	<40	<1	49.8	7128	7	16	<1	510	<2
21527	239	19	170.5	11	<40	1	40.8	6490	6	<4	1	3201	5
21529	30	16	86.0	18	<40	<1	59.2	5017	4	26	<1	795	<2
21533	7	16	27.2	4	<40	<1	20.4	925	2	6	<1	180	2
21536	14	<4	41.8	12	<40	<1	38.9	1121	2	21	<1	169	5
21540	11	<4	63.7	4	<40	<1	11.7	5174	3	7	1	50	10
21541	7	<4	32.6	<4	<40	<1	9.1	1440	<2	4	1	27	5
21542	8	<4	58.1	<4	<40	<1	15.6	2563	<2	4	<1	42	<2
21549	11	21	56.7	16	<40	<1	22.1	1051	2	14	1	315	9
21551	8	<4	46.0	<4	<40	<1	18.8	894	<2	<4	<1	182	<2
21552	13	<4	56.3	6	<40	<1	21.9	1071	<2	9	<1	114	2
21557	173	<4	81.5	16	<40	<1	28.7	4104	7	5	<1	4940	<2
21560	103	<4	45.8	25	<40	1	17.0	2431	5	12	2	2980	<2
21564	5	<4	31.4	19	<40	<1	10.7	2440	2	10	1	1045	2
21567	18	5	90.0	6	<40	1	29.7	7565	8	15	1	3222	2
21569	8	<4	42.8	<4	<40	<1	15.1	3699	3	<4	<1	1571	<2
21570	7	5	39.7	4	<40	<1	13.7	3349	2	8	1	1411	5
21575	5	17	33.6	5	<40	<1	11.0	2506	<2	8	<1	1058	<2
21577	6	10	37.3	15	<40	<1	12.3	2847	<2	<4	<1	1195	<2
21580	118	11	138.6	13	<40	3	26.7	14185	15	<4	<1	1185	<2
21581	13	<4	31.1	<4	<40	1	9.5	8985	10	4	1	70	10
21582	21	5	43.6	<4	<40	3	13.8	12805	22	<4	1	121	<2
21588	15	<4	40.7	75	<40	<1	18.5	4852	2	<4	<1	163	<2
21590	49	13	405.5	<4	<40	7	82.3	51390	35	25	<1	2640	<2
21592	65	<4	265.0	49	<40	2	21.0	18405	28	12	<1	129	<2
21593	107	<4	557.4	23	<40	4	41.8	28136	24	5	3	3270	13
21594	23	24	80.4	17	<40	<1	8.0	7595	2	14	2	13	11
21596	10	11	35.9	13	<40	<1	11.5	3369	2	7	2	24	10
21597	21	<4	78.9	<4	<40	1	28.2	8659	12	19	1	63	<2
21600	66	44	166.9	20	113	1	6.3	14785	17	6	<1	181	<2
21606	127	<4	24.0	344	<40	<1	14.1	2806	3	8	<1	465	2

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	COMM	MEAS	PH	CT-F
21610	W	35	32.666	104.648	2	08	11/30/76	11	6.0	2.0	C		7.6	260
21615	W	35	32.632	104.731	2	08	11/30/76	13	8.0	9.0	C		8.4	1600
21620	W	35	32.809	104.721	2	08	12/01/76	13	4.0	17.0			8.0	1250
21623	W	35	32.752	104.630	2	08	12/01/76	14	6.0	8.0	C		8.8	1200
21624	W	35	32.751	104.672	2	08	12/01/76	15	7.0	8.0	C		7.8	1200
21627	W	35	32.751	104.685	2	08	12/01/76	16	8.0	2.0	C		8.2	2000
21636	W	35	32.796	104.047	2	08	12/02/76	11	9.0	16.0			7.8	500
21640	W	35	32.826	104.068	2	08	12/02/76	12	12.0	16.5	C		7.7	2400
21647	W	35	32.944	104.124	2	08	12/02/76	15	15.0	10.0	C		8.6	3700
21653	W	35	32.757	104.214	2	08	11/24/76	14	20.0	11.0	C		7.8	1700
21658	W	35	32.790	104.140	2	08	11/24/76	15	16.0	10.5	C		8.0	4100
21660	W	35	32.815	104.156	2	08	11/24/76	16	17.0	11.0	C		8.0	1050
21661	W	35	32.841	104.140	2	08	11/24/76	16	17.0	9.5	C		7.8	3000
21667	S	35	32.901	104.360	2	07	11/26/76	10	14.0	11.0			7.4	4900
21668	W	35	32.923	104.366	2	08	11/26/76	10	14.0	10.0	C		6.9	1700
21669	W	35	32.951	104.367	2	08	11/26/76	10	16.0	11.0	C		7.3	2500
21671	W	35	32.977	104.370	2	08	11/26/76	11	17.0	12.0	C		7.7	2300
21672	W	35	32.945	104.309	2	08	11/26/76	11	18.0	15.0	C		7.1	4000
21675	W	35	32.977	104.260	2	08	11/26/76	12	20.0	12.0	C		7.9	3300
21677	W	35	32.972	104.223	2	08	11/26/76	12	17.0	15.0	C		6.8	4300
21679	W	35	32.965	104.165	2	08	11/26/76	13	20.0	12.0	C		6.8	4300
21682	L	35	32.957	104.128	2	09	11/26/76	13	20.0	16.0	C		7.1	50000
21683	L	35	32.940	104.136	2	09	11/26/76	14	20.0	17.0	C		6.5	50000
21688	W	35	32.885	104.229	2	08	11/26/76	15	19.0	13.5	C		7.7	50000
21693	W	35	32.897	104.332	2	08	11/26/76	16	17.0	12.5	C		7.3	4200
21701	S	35	32.820	104.913	2	07	11/30/76	10	5.0	6.0			8.3	800
21702	S	35	32.826	104.868	2	07	11/30/76	10	7.0	6.0			8.1	750
21703	W	35	32.827	104.863	2	08	11/30/76	10	8.0	9.0	C		8.1	700
21710	W	35	32.731	104.968	2	08	11/30/76	12	10.0	10.0	C		8.2	600
21716	W	35	32.724	104.904	2	08	11/30/76	13	10.0		C		8.2	900
21721	W	35	32.809	104.796	2	08	11/30/76	14	12.0	10.0			8.0	700
21723	W	35	32.822	104.816	2	08	11/30/76	14	12.0	13.0			7.7	800
21725	W	35	32.785	104.886	2	08	11/30/76	15	10.0	15.0			7.7	750
21726	W	35	32.832	104.812	2	08	11/30/76	15	10.0	15.0			7.7	800
21727	S	35	32.815	104.780	2	07	11/30/76	16	8.0	6.0			8.1	750
21737	W	35	32.688	104.892	2	08	12/01/76	10	1.0	5.0	C		7.8	500
21740	W	35	32.694	104.812	2	08	12/01/76	11	1.0	5.0	C		6.0	900
21748	W	35	32.662	104.780	2	08	12/01/76	13	2.0	8.0	C		6.6	600
21762	W	35	32.542	104.962	2	08	12/02/76	9	8.0	11.0	C		7.0	600
21769	W	35	32.575	104.698	2	08	12/02/76	11	12.0	13.0			7.5	500
21774	W	35	32.559	104.936	2	08	12/02/76	12	14.0	11.0	C		7.5	600
21751	W	35	32.556	104.651	2	08	12/02/76	16	10.0	10.0			7.8	800
21796	W	35	32.564	104.769	2	08	12/03/76	9	6.0	17.0			7.2	1000
21919	W	35	32.734	104.713	2	08	12/03/76	17	9.0	14.0			7.9	1100
21923	W	35	32.945	104.561	2	08	12/04/76	8	<1.0	10.0	C		7.9	1100
21928	W	35	32.947	104.672	2	08	12/04/76	9	8.0	16.0			7.8	800
21932	W	35	32.965	104.722	2	08	12/04/76	9	8.0	16.0			7.4	1000
21937	W	35	32.921	104.681	2	08	12/04/76	10	10.0	12.0	C		7.4	700
21949	W	35	32.843	104.420	2	08	12/04/76	13	15.0	15.0			7.4	1100
21950	W	35	32.794	104.412	2	08	12/04/76	13	14.0	13.0			7.9	1000
21958	W	35	32.255	104.060	2	08	12/04/76	11	15.0		C		8.1	6000
21966	L	35	32.256	104.002	2	09	12/04/76	15	14.0	10.0	C		7.9	50000
21969	W	35	32.817	104.403	2	08	12/04/76	13	14.0	11.0	C		6.3	1350
21970	W	35	32.845	104.360	2	08	12/05/76	11	13.0	10.5	C		8.0	2800
21971	W	35	32.831	104.255	2	08	12/05/76	11	15.0	11.0			7.7	1500

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	#COL	RELF	SKY	TWEL	DIAM (INCHES)	W-UP (FEET)	WATD (FEET)
21610	1	13	1	6				1	1	1	1			
21615	1	9	1	1				1	3	1	1			
21620	1	6	1	1				1	1	2	9	8	580	530
21623	1	6	1	1				1	1	1	1			
21624	1	4	1	1				1	1	1	5	8	519	507
21627	1	8	1	1				1	1	1	1			
21636	2	4	1	4				1	1	1	8			
21640	2	6	1	4				1	1	1	1			
21647	1	4	1	4				1	2	1	1			
21653	2	4	1	6					1	2				
21659	2	4	1	4					1	2	1			
21660	2	6	1	4				1	2	2	1			
21661	2	7	1	4					2	2	1			
21667	1	6	1	6	5	6	2	1	1	1	1			
21668	1	7	1	6				1	1	1	1			
21669	1	12	1	6				1	1	1	1			
21671	1	6	1	6				1	1	1	1			
21672	1	7	1	6				1	1	1	1			
21675	1	4	1	4				1	1	1	1			
21677	1		1	4				1	1	1	3			
21679	1	4	1	4				1	2	1	1			
21692	1	6	1	4	5	8		1	2	1				
21683	1	6	1	4	5	8		1	2	1				
21688	1	6	1	4				3	2	1	1			
21693	1	9	1	4				1	2	1				
21701	1	3	1	7	4	6	3	1	2	1				
21702	1	1	1	7	4	6	3	1	2	1				
21703	1	8	1	7			3	1	2	1	1			
21710	1	9	1	7			3	1	2	1	1			
21716	1	9	1	7			3	1	2	1	1			
21721	1	6	1	7			3	1	2	1	1			
21723	1	6	1	7			3	1	2	1	2			
21725	1	4	1	7			3	1	2	1	1			
21726	1	6	1	7			3	1	2	1	2			
21727	1	8	1	7	5	6	3	1	2	1				
21737	1	8	1	7			3	1	2	3	4			
21740	1	4	1	7			3	1	2	3	4			
21748	1	6	1	7			3	1	2	3	3			
21762	1	11	1	7			3	1	2	1	1			
21769	1	8	1	7			3	1	2	1	1			
21774	1	3	1	7			3	1	2	1	1			
21791	1	8	1	7			3	1	2	1	1			
21796	1	6	1	7			3	1	2	1	1			
21919	1	9	1	7				1	2	1	1			
21923	1	4	1	7			3	1	2	1	6			
21929	1	9	1	7			3	1	2	1	1			
21932	1	11	1	7			3	1	2	1	1			
21937	1	9	1	7			3	1	2	1	1			
21949	1	16	1	7			3	1	2	1	3			
21950	1	14	1	7				1	1	1	4			
21958	1	6	1	4				1	1	1	1			
21966	1	6	1	4	5	4		1	2	1				
21969	1	4	1	6					1	1	5	6		
21970	1	9	1	6					1	1	5			
21971	1	4	1	6					1	1				

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	U	AG	AL	U	BA	DE	CA	CE	CO	CR	CU	FL	K	LI	MG
21610	0.23	13	407	23	12	<1	69.3	87	6	14	19	57.5	0.6	4	11.1
21615	3.70	<2	549	125	62	<1	797.8	<30	<2	8	54	60.5	2.2	23	143.3
21620	0.70	<2	71	101	35	<1	237.9	<30	<2	<4	12	3.5	1.5	19	67.3
21623	1.04	<2	156	67	19	<1	254.1	<30	4	<4	18	12.5	1.8	16	76.1
21624	0.41	<2	646	130	50	<1	348.6	<30	<2	5	30	51.5	2.8	37	132.5
21627	0.63	<2	376	93	26	<1	622.3	<30	<2	<4	23	43.5	2.0	25	140.6
21636	0.83	<2	196	210	176	<1	135.4	<30	<2	<4	310	19.5	7.4	56	32.1
21640	8.23	<2	2812	303	129	<1	2502.0	<30	10	132	476	4606	17.5	89	191.9
21647	4.97	<2	472	612	40	<1	1975.0	32	<2	5	47	511	12.2	105	208.3
21653	8.20	<2	502	754	54	<1	295.4	<30	<2	8	41	36.5	11.5	246	132.2
21658	6.40	<2	269	670	22	<1	103.9	<30	<2	<4	19	16.5	12.6	95	70.2
21660	4.66	<2	1353	214	180	<1	97.2	<30	<2	<4	76	86.7	13.6	256	60.2
21661	8.42	<2	704	834	104	<1	152.8	<30	<2	<4	42	39.5	19.9	222	104.5
21667	50.00	<2	264	562	47	<1	475.7	<30	<2	<4	20	17.7	9.2	128	344.4
21669	4.20	<2	530	372	35	<1	639.9	<30	<2	<4	46	41.5	5.3	109	178.2
21669	6.61	<2	759	435	33	<1	988.2	<30	<2	<4	47	49.5	5.8	109	231.0
21671	5.61	<2	1008	367	34	<1	750.5	<30	<2	5	74	63.5	5.5	102	193.6
21672	15.50	<2	621	1872	29	<1	824.1	<30	3	<4	50	59.9	8.4	223	228.1
21675	5.84	<2	955	952	44	<1	1318.0	53	13	9	40	60.1	10.3	131	260.5
21677	10.19	<2	944	441	52	<1	1278.0	<30	<2	<4	54	82.1	15.4	100	156.8
21679	11.00	<2	656	2121	48	<1	1451.0	<30	2	<4	49	57.5	14.2	247	303.3
21682	5.30	<2	748	7114	101	<1	1391.0	<30	7	<4	49	51.2	137.0	255	1369.0
21683	2.46	<2	4730	7327	282	<1	1170.0	<30	7	9	251	4494	176.5	431	1291.0
21688	5.12	3	37	1876	16	<1	637.6	<30	<2	<4	18	<1.6	41.6	101	249.6
21693	9.30	<2	3403	1934	83	<1	1356.0	<30	<2	<4	117	332.5	14.5	265	288.8
21701	1.49	<2	21	40	57	<1	196.5	<30	<2	<4	4	3.8	1.2	9	54.2
21702	1.35	6	243	304	258	<1	809.7	40	<2	12	21	296	7.8	54	233.7
21703	2.38	2	77	168	93	<1	396.1	46	2	4	11	96	5.2	51	155.7
21710	0.33	3	165	168	74	<1	308.0	<30	<2	5	16	11.5	3.9	39	117.2
21716	1.51	<2	48	111	22	<1	206.7	<30	<2	<4	6	3.5	3.6	29	108.7
21721	0.81	<2	43	46	26	<1	122.0	<30	<2	<4	5	2.5	1.9	18	53.0
21723	1.03	<2	135	168	139	<1	267.7	<30	<2	4	35	11.5	3.4	27	91.4
21725	1.35	<2	244	137	100	<1	368.7	<30	<2	4	44	132	5.0	172	132.3
21726	1.29	<2	294	212	174	<1	339.2	<30	4	<4	11	16.5	4.4	59	117.0
21727	0.36	<2	69	85	71	<1	257.4	<30	2	<4	5	4.5	2.9	19	78.4
21737	0.32	<2	76	78	44	<1	186.4	<30	<2	<4	6	6.7	2.9	18	63.8
21740	2.00	<2	362	266	151	<1	653.9	<30	<2	<4	61	30.5	15.2	179	282.4
21748	0.29	<2	73	56	59	<1	252.8	<30	<2	<4	15	106.5	5.1	32	103.6
21762	1.21	4	80	213	168	<1	452.3	<30	7	4	16	57	6.0	53	173.5
21769	0.79	6	158	60	44	<1	140.1	<30	2	5	7	71	1.7	12	43.6
21774	1.00	<2	97	67	40	<1	116.2	<30	<2	<4	18	6.5	2.7	25	79.4
21791	4.75	4	324	100	32	<1	694.4	40	7	4	31	20.5	3.5	35	133.8
21796	1.39	2	146	98	54	<1	385.6	<30	2	<4	20	10.7	3.0	28	128.3
21919	2.40	<2	212	201	57	<1	738.8	<30	<2	<4	12	12.5	7.8	63	256.3
21923	3.86	6	75	158	82	<1	542.2	<30	<2	5	8	6.5	3.1	60	140.6
21924	1.44	6	87	137	98	<1	417.9	41	8	<4	11	6.5	2.7	90	107.2
21932	1.37	4	100	92	64	<1	279.3	39	3	<4	25	71	1.9	31	71.1
21937	1.14	8	157	174	127	<1	519.1	62	<2	6	41	13.5	3.9	38	136.3
21949	1.38	4	1227	230	100	<1	753.6	<30	<2	6	30	41.7	5.9	58	237.5
21950	1.57	6	341	230	97	<1	766.9	34	5	4	29	31.8	4.8	57	212.4
21958	11.90	<2	1361	2150	119	<1	2871.0	<30	21	9	111	282.4	20.9	374	920.8
21966	16.80	<2	694	1326.7	90	<1	1579.0	<30	<2	<4	71	71.5	1944.0	274	1343.0
21969	0.43	<2	24	73	15	<1	304.2	<30	3	<4	3	11	2.0	26	80.3
21970	4.31	3	484	362	59	<1	1151.0	54	<2	8	37	40.5	6.4	122	231.3
21971	3.18	<2	277	155	46	<1	388.4	<30	<2	4	15	25.0	3.3	42	119.9

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMP_L	MN	MD	NA	NI	P	SC	SI	SR	TI	V	Y	Z1	ZK
21610	38	5	2.7	214	<40	<1	2.6	755	7	10	3	149	24
21615	221	6	19.9	743	<40	<1	12.2	6686	17	<4	1	415	5
21620	7	6	15.0	57	<40	4	9.9	3872	13	<4	1	112	<2
21523	10	<4	18.6	146	<40	<1	6.8	3601	4	5	<1	145	<2
21624	67	76	17.6	222	<40	<1	15.1	6410	9	<4	<1	2176	<2
21627	156	<4	15.6	130	<40	<1	7.2	8745	10	<4	1	255	<2
21636	9	<4	114.1	111	152	<1	10.7	1770	<2	50	<1	191	<2
21640	191	9	44.2	991	255	1	34.8	44186	62	77	8	2071	11
21647	42	15	344.1	66	<40	3	40.1	14293	39	112	3	417	<2
21653	248	8	243.1	20	<40	<1	41.9	6427	8	27	<1	150	<2
21658	15	18	874.1	4	<40	1	4.8	2814	6	11	<1	96	<2
21660	22	<4	274.9	35	<40	<1	54.5	2588	13	81	<1	177	<2
21661	23	<4	1114.0	12	<40	1	29.0	4214	11	57	<1	174	<2
21667	69	55	457.5	18	<40	1	12.9	8977	10	22	2	62	15
21668	18	8	147.5	16	<40	2	33.1	9996	17	6	<1	115	<2
21569	30	<4	127.0	18	<40	2	31.1	14033	25	<4	1	115	<2
21671	25	6	128.3	16	<40	<1	28.2	11261	17	6	2	115	<2
21672	23	29	333.3	5	<40	2	16.2	15555	20	12	1	165	4
21675	27	<4	135.3	16	<40	5	18.6	24736	37	26	3	665	16
21677	31	28	467.3	13	<40	3	30.0	13540	34	29	1	332	<2
21679	33	23	538.2	<4	<40	4	29.9	22472	36	29	1	468	<2
21682	137	8	6175.0	11	<40	9	4.0	38885	74	<4	4	245	12
21693	401	<4	5571.0	88	<40	14	20.1	70163	181	<4	2	643	<2
21538	8	<4	975.3	6	<40	3	9.4	11470	13	8	1	15	<2
21693	68	14	614.4	14	50	5	33.5	20754	75	28	1	394	<2
21701	5	<4	1.8	<4	<40	1	9.5	2351	2	<4	<1	25	<2
21702	37	<4	131.4	25	<40	2	36.4	10894	16	26	2	95	9
21703	22	21	65.0	14	<40	<1	15.1	7528	5	13	2	437	5
21710	31	4	50.1	25	<40	<1	22.3	5109	4	11	<1	1517	8
21715	6	18	45.4	<4	<40	<1	22.7	4122	<2	<4	<1	119	<2
21721	6	<4	23.6	<4	<40	<1	4.9	2151	<2	6	<1	105	<2
21723	33	11	75.6	34	<40	<1	15.4	2746	3	8	1	276	<2
21725	12	10	64.5	5	<40	<1	19.6	5320	6	9	1	5151	9
21725	42	7	104.3	16	<40	<1	19.6	3460	6	11	<1	305	10
21727	10	6	59.1	8	<40	<1	12.0	3184	2	8	1	31	3
21737	9	<4	22.5	9	<40	<1	12.0	2676	<2	<4	<1	531	<2
21740	74	128	98.1	44	<40	1	38.0	10782	12	5	1	717	<2
21748	124	9	27.5	5	<40	<1	7.3	4623	2	<4	<1	112	<2
21762	32	10	43.5	30	<40	1	29.9	4727	6	4	1	1174	10
21769	10	8	18.9	7	<40	<1	9.9	1378	3	4	1	1432	5
21774	15	4	18.2	<4	<40	<1	11.3	1601	2	<4	<1	187	<2
21791	27	53	19.8	57	<40	1	15.7	5527	14	13	2	155	6
21796	42	18	24.8	<4	<40	<1	15.9	4237	4	<4	<1	1345	<2
21919	27	10	56.6	<4	<40	1	18.3	11334	11	<4	<1	420	<2
21923	13	5	42.8	19	<40	<1	18.3	7171	6	9	1	1635	9
21928	6	22	50.4	<4	<40	1	16.5	4799	6	8	2	477	<2
21932	6	14	31.0	4	<40	1	11.3	3119	4	13	1	334	7
21937	11	<4	55.1	<4	<40	<1	21.3	6099	8	15	3	625	<2
21940	34	9	72.7	<4	<40	1	30.2	11607	20	13	2	15065	9
21950	29	<4	65.4	9	<40	1	27.1	10532	17	17	2	685	<2
21958	740	<4	2375.0	56	82	7	40.5	47694	87	<4	4	3512	<2
21966	605	<4	5931.0	6	<40	15	7.9	26807	126	<4	1	534	5
21969	7	<4	38.1	12	<40	<1	13.1	3113	2	4	<1	1475	<2
21970	127	<4	357.4	33	<40	2	27.3	15989	26	22	1	3685	10
21971	21	4	52.6	31	<40	<1	21.7	5928	6	<4	<1	1487	8

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMP_E	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	CORN	MEAS	PH	CT-F
21972	W	35	32.761	104.112	2	08	12/03/76	12	15.0	11.0	C		8.3	500
21979	W	35	32.542	104.604	2	08	12/03/76	11	15.0	15.0			8.6	1000
21980	W	35	32.502	104.707	2	08	12/03/76	11	15.0	14.0	C		7.6	1100
21995	W	35	32.699	104.706	2	08	12/03/76	15	12.0	8.0	C		7.9	900
21998	W	35	32.705	104.637	2	08	12/03/76	16	12.0	10.0	C		7.8	750
32907	L	35	32.577	105.929	2	10	07/13/77	10	31.0	24.9			7.8	210
32937	L	35	32.525	105.622	2	10	07/15/77	17	32.0	25.0	C		7.3	250
32939	L	35	32.613	105.713	2	09	07/16/77	6	12.0	20.5	C		7.5	480
32950	W	35	32.603	105.615	2	08	07/16/77	10	28.0	19.2	C		6.5	420
32951	W	35	32.591	105.462	2	08	07/17/77	15	32.0		C		5.7	650
32954	L	35	32.689	105.896	2	10	07/28/77	12	36.0	31.0			7.8	430
32965	W	35	32.698	105.891	2	08	07/28/77	13	36.0	29.0	C		7.9	850
32971	S	35	32.748	105.912	2	07	07/28/77	15	37.0	28.5	C		7.8	8000
32978	W	35	32.605	105.584	2	08	07/16/77	10	30.0	14.3	C		6.5	550
32982	W	35	32.568	105.573	2	08	07/16/77	10	30.0	21.1			6.6	470
32984	W	35	32.562	105.599	2	08	07/16/77	11	30.0				6.6	490
32990	W	35	32.605	105.525	2	08	07/16/77	13	31.0	20.7	C		6.2	480
32993	W	35	32.555	105.529	2	08	07/16/77	14	32.0	21.4	C		6.8	340
33000	W	35	32.526	105.516	2	08	07/16/77	16	34.0	25.5			5.6	600
33034	W	35	32.540	105.437	2	08	07/16/77	16	34.0	21.9	C		6.6	500
33054	W	35	32.078	105.522	2	08	07/15/77	10	31.0	26.0	C		6.9	1600
33056	W	35	32.065	105.497	2	08	07/15/77	11	33.0	24.5	C		7.1	155
33060	W	35	32.021	105.475	2	08	07/15/77	12	36.0	20.8	C		6.9	780
33062	W	35	32.018	105.425	2	08	07/15/77	13	37.0	20.1	C		6.9	1650
33066	W	35	32.070	105.431	2	08	07/15/77	14	37.0	25.8	C		7.1	1825
33077	W	35	32.156	105.376	2	08	07/15/77	16	37.0	21.9			6.9	1700
33081	W	35	32.170	105.441	2	08	07/15/77	17	36.0	19.3			7.0	925
33085	W	35	32.248	105.426	2	08	07/15/77	18	36.0	21.0			7.1	600
33090	W	35	32.126	105.577	2	08	07/16/77	9	32.0	26.8	C		7.3	850
33092	W	35	32.175	105.591	2	08	07/16/77	9	32.0	18.9	C		7.2	900
33093	L	35	32.188	105.561	2	09	07/16/77	10	32.0	25.8			7.5	280
33107	W	35	32.226	105.661	2	08	07/16/77	14	37.0	19.5			7.1	1450
33114	W	35	32.194	105.736	2	08	07/16/77	16	37.0	19.0			7.1	1750
33116	W	35	32.181	105.776	2	08	07/16/77	17	38.0	26.5	C		7.7	800
33119	W	35	32.159	105.816	2	08	07/16/77	17	36.0	18.5			7.3	550
33122	W	35	32.249	105.531	2	08	07/16/77	13	38.0	21.1			7.1	750
33128	W	35	32.346	105.440	2	08	07/17/77	10	32.0	22.0	C		6.4	525
33133	W	35	32.401	105.485	2	08	07/17/77	12	37.0	25.5	C		8.2	600
33137	W	35	32.259	105.442	2	08	07/17/77	13	38.0	22.0	C		6.7	600
35109	W	35	32.030	105.873	2	08	07/13/77	18	30.0	25.2			8.0	925
35110	W	35	32.125	105.814	2	08	07/13/77	18	30.0		C		7.9	2000
35124	W	35	32.041	105.661	2	08	07/14/77	10	34.0	24.5	C		6.3	2100
35126	W	35	32.044	105.613	2	08	07/14/77	11	35.0	25.5	C		8.0	1750
35130	W	35	32.062	105.536	2	08	07/14/77	12	36.0	23.5	C		6.5	1300
35134	W	35	32.024	105.538	2	08	07/14/77	13	37.0	19.0	C		7.1	550
35144	W	35	32.042	105.714	2	08	07/14/77	15	35.0	21.6			6.8	2100
35145	W	35	32.136	105.717	2	08	07/14/77	16	32.0	18.1	C		7.0	990
36251	S	35	32.983	105.918	2	07	06/28/77	14	39.0	31.0	C		8.0	3650
36255	W	35	32.951	105.941	2	08	06/28/77	14	38.0	18.2			7.4	1700
36265	W	35	32.792	105.942	2	08	06/28/77	18	36.0	3.1	C		7.0	2200
36266	P	35	32.792	105.941	2	06	06/28/77	19	36.0	28.0	C		6.8	1200
36382	L	35	32.612	105.789	2	10	07/03/77	11	36.0	29.1	C		9.8	210
36396	W	35	32.658	105.935	2	08	07/03/77	15	32.0	22.8			7.9	850
36399	W	35	32.666	105.909	2	08	07/03/77	17	32.0	23.5			7.8	1400
494127	W	35	32.949	105.462	2	08	04/22/78	10	21.0	16.8			7.2	600

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSEAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	TWEL	DIAM (INCHES)	W-DP (FEET)	WATD (FEET)
21972	2	4	1	5					2	1	3			
21979	1	14	1	7			3	1	2	1	1			
21980	1	11	1	7			3	1	2	1				
21985	1	14	1	7			3	1	2	1	1			
21998	1	12	1	7			3	1	2	1	1			
32907	1	33	1	6	4	6	1	2	2	2				
32937	1	86	1	7	6	6	1	2	4	2				
32939	1	83	1	7	6	6	1	1	4	1				
32950	1	30	1	7			3	1	3	1	9	8	485	
32951	1		1	7			3	1	3	2				
32964	1	44	1	6	4	6	1	3	3	1				
32965	1	19	1	6			3	1	4	2	1	12		
32971	1	22	1	6		6	3	1	4	2				
32973	1	39	1	7			4	2	3	2	1	5		
32982	1	27	1	7			2	1	3	2	1	8		
32984	1	36	1	7			4	1	3	3	1	8		
32990	1	83	1	7			3	1	5	2	4	8	700	700
32993	1	44	1	7			2	1	3	2	4			
33000	1	30	1	7			3	1	3	2	4	6		
33034	1	83	1	4			3	1	3	2	4			
33054	1	4	1	7			2	1	3	2	1	3	230	
33056	9	8	1	7			2	3	3	1	3			
33060	1	8	1	7			3	1	3	1	1	6	150	120
33062	1	23	1	7			3	1	1	2	9	10	700	670
33066	1	16	1	7			3	1	3	2	1	2	999	800
33077	1	7	4	7			2	1	2	2	1	3		
33081	1	6	1	7			4	1	3	2	3	4		
33085	1	8	1	7			2	1	2	2	1	3		
33090	1	11	1	7			2	1	3	1	1	3		
33092	1	7	1	7			5	1	2	1	3			
33093	1	8	1	7	5	6	1	4	2	1				
33107	1	6	1	7			4	1	3	2	3	4	300	
33114	1	8	1	7			4	1	4	2	3	6	235	170
33116	9	4	1	7			1	1	4	2	1	3		
33119	1	7	1	7			2	1	4	2	1	4		
33122	1	8	1	7			4	1	3	2	1	4		
33128	1	5	1	7			3	1	4	1	1	6	450	
33133	1	10	1	7			1	1	4	2	1	3		
33137	1	4	1	7			4	1	2	2	3	6	400	
35109	1	16	4				2	1	2	3	3	5	200	160
35110	1	16	4				2	2	2	3	3	5	480	400
35124	1	13	3	8			1	1	3	1	1	4		
35126	9	6	1	7			1	2	3	1	1	4		
35130	1	13	1	7			2	1	4	1	1	4		
35134	1	25	3	7			4	1	5	2	1	4		
35144	1	8	1	7			4	1	1	3	3	6	600	540
35145	1	12	1	7			4	1	3	3	9	4		150
36251	7	22	1	6	4	6	2	1	3	2				
36255	1	38	1	6			3	1	3	4		6	280	210
36265	1	30					3	2	3	2	3		300	200
36266	1	30	1	7			4	1	4	2				
36382	1	25	1	6	6	8	1	1	4	2				
36396	1	41	1	6			2	1	1	3	1	6		
36399	1	75	1	6			1	1	1	3	1	6		
494127	1	16	1	6			3	1	3	1	1	4		

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	U	AG	AL	B	BA	BE	CA	CE	CO	CR	CU	Fz	K	LI	MG
21972	1.49	<2	1210	341	266	<1	261.7	<30	<2	6	48	1045	15.6	279	55.9
21973	6.11	<2	157	149	52	<1	646.4	<30	<2	<4	27	103	4.9	40	155.4
21980	1.75	<2	85	68	44	<1	401.1	<30	<2	<4	9	53	2.0	19	95.6
21995	1.45	<2	116	41	14	<1	244.4	<30	6	<4	4	62	2.9	17	61.9
21998	1.37	2	72	54	24	<1	261.6	<30	4	4	8	53	3.3	14	68.4
32907	1.41	<2	130	21	48	<1	35.3	<30	<2	<4	4	53	7.4	2	3.2
32937	1.00	<2	35	40	78	<1	40.9	<30	<2	<4	5	44	10.1	4	2.5
32939	1.33	<2	74	12	23	<1	77.4	<30	<2	<4	<2	34	0.3	2	15.0
32950	0.34	<2	35	12	33	<1	64.9	<30	<2	<4	25	19	0.6	<2	11.3
32951	1.17	<2	44	25	40	<1	121.3	<30	<2	<4	4	253	1.0	6	25.5
32964	0.65	6	1257	72	119	<1	61.5	37	<2	5	20	1639	28.0	6	8.3
32965	2.46	2	313	43	17	<1	83.3	<30	<2	17	8	92	1.9	13	35.3
32971	0.38	3	43	41	37	<1	88.7	<30	12	<4	2	17	1.3	10	32.1
32978	0.19	<2	19	18	54	<1	114.6	<30	2	<4	8	244	0.8	3	20.5
32982	0.29	4	149	16	38	<1	71.5	<30	5	11	8	49	0.7	2	13.9
32984	0.29	<2	55	16	61	<1	76.7	<30	<2	<4	6	555	0.8	8	18.1
32990	0.29	<2	38	22	90	<1	69.7	<30	4	<4	25	<13	0.7	3	17.6
32993	1.02	<2	16	20	52	<1	35.6	<30	<2	<4	5	66	0.9	4	21.2
33000	4.99	<2	31	35	25	<1	67.3	<30	<2	<4	8	16	0.8	9	26.0
33034	2.77	<2	81	34	58	<1	63.2	<30	<2	<4	22	21	1.3	13	27.8
33054	4.23	2	101	635	7	<1	309.1	<30	<2	<4	15	43	5.9	115	130.9
33056	0.68	<2	282	23	62	<1	37.3	<30	<2	12	5	332	4.6	4	2.3
33050	5.93	<2	95	154	98	<1	73.1	<30	<2	<4	5	84	0.3	9	66.2
33062	10.20	4	112	516	13	<1	414.6	<30	<2	<4	10	824	4.6	139	138.2
33066	7.08	<2	67	510	23	<1	650.4	<30	<2	<4	5	77	7.1	116	165.2
33077	10.77	<2	81	235	16	<1	471.2	<30	<2	<4	2	1747	2.3	75	94.2
33081	8.25	3	253	254	16	<1	187.1	<30	8	16	5	117	2.9	49	57.4
33085	2.08	2	39	166	46	<1	141.7	<30	2	<4	2	274	1.9	33	50.6
33090	8.25	<2	232	302	36	<1	88.6	<30	<2	10	4	83	4.1	75	72.9
33092	7.59	3	36	458	23	<1	158.4	<30	4	<4	2	27	3.6	67	61.6
33093	0.48	<2	497	67	160	<1	64.8	<30	<2	5	23	306	14.6	6	6.4
33107	7.98	<2	28	651	9	<1	307.3	<30	<2	<4	<2	2877	6.3	105	105.2
33114	17.13	<2	33	655	19	<1	442.9	<30	<2	<4	7	84	3.3	84	100.7
33116	16.00	3	41	643	20	<1	113.0	58	9	7	15	59	3.8	87	59.4
33119	11.00	<2	19	236	123	<1	88.5	<30	2	<4	35	39	1.2	52	42.7
33122	6.26	<2	34	110	18	<1	194.0	<30	<2	<4	7	27	3.0	28	62.9
33128	3.04	8	228	50	34	<1	129.3	60	7	18	11	91	1.2	9	38.0
33133	5.15	<2	47	155	25	<1	53.6	<30	<2	<4	30	33	4.2	75	67.8
33137	2.14	<2	46	41	32	<1	119.5	<30	<2	<4	5	99	1.1	9	34.3
35109	5.17	<2	40	362	18	<1	42.8	<30	<2	<4	4	<10	6.3	93	23.9
35113	15.90	<2	38	832	19	<1	231.9	<30	4	<4	<2	35	9.1	173	118.1
35124	7.57	2	38	1405	11	<1	120.8	43	9	<4	9	36	6.3	82	61.2
35126	9.99	<2	338	1732	16	<1	83.8	<30	5	18	10	162	9.4	178	92.0
35130	6.71	<2	16	439	14	<1	247.2	<30	6	<4	3	45	3.1	76	84.7
35134	52.00	<2	19	124	42	<1	61.5	<30	<2	<4	12	23	4.7	10	32.9
35144	4.37	<2	41	1372	10	<1	301.1	<30	<2	<4	2	59	10.7	170	110.8
35145	3.73	<2	29	429	34	<1	143.6	<30	<2	<4	3	654	4.2	89	75.1
36251	1.78	2	32	161	52	<1	361.2	<30	<2	5	8	50	3.0	41	109.9
36255	3.00	<2	12	71	13	<1	177.6	<30	<2	<4	17	13	1.4	19	63.6
36265	11.10	<2	14	550	23	<1	282.0	<30	<2	<4	6	27	2.1	60	151.6
36266	2.81	3	<10	59	24	<1	166.8	52	5	5	2	22	1.7	15	45.9
36382	0.30	3	189	13	5	<1	15.3	<30	<2	<4	<2	181	0.4	<2	9.4
36396	3.46	<2	29	131	19	<1	68.3	<30	<2	<4	5	86	2.2	45	45.7
36399	5.18	<2	17	131	18	<1	122.2	<30	<2	<4	5	25	2.4	50	93.8
394127		<2	16	14	53	<1	110.5	<30	<2	<4	11	29	0.7	4	16.7

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMP_E	MN	MO	NA	NI	P	SC	SI	SR	TI	V	Y	ZV	ZR
21972	44	4	144.2	74	<40	<1	65.5	3012	18	52	<1	511	<2
21979	17	25	37.0	9	175	1	14.9	8226	11	<4	<1	289	<2
21980	100	15	16.2	7	<40	<1	9.1	2925	4	<4	<1	7825	<2
21995	24	<4	12.8	21	<40	<1	2.8	3177	2	<4	<1	197	<2
21998	27	30	12.3	6	<40	<1	6.3	2965	4	8	3	610	15
32907	7	<4	1.1	<4	<40	<1	3.7	178	<2	<4	<1	25	<2
32937	43	<4	2.5	8	42	<1	5.8	116	<2	<4	<1	44	<2
32939	5	<4	3.9	18	<40	<1	4.6	488	<2	<4	<1	12	<2
32950	<2	17	3.6	<4	<40	<1	3.7	265	<2	<4	<1	587	<2
32951	12	31	5.0	<4	<40	<1	4.5	1622	<2	<4	<1	57	<2
32964	80	<4	2.9	8	234	<1	8.5	355	11	12	2	109	7
32965	10	14	29.2	4	<40	<1	7.6	745	3	<4	1	334	<2
32971	3	<4	24.3	4	<40	<1	6.0	845	3	<4	1	8	<2
32978	70	<4	4.1	<4	<40	<1	4.0	784	<2	<4	<1	1489	<2
32982	31	<4	6.2	9	<40	<1	3.6	372	<2	<4	<1	537	<2
32984	31	<4	7.4	<4	<40	<1	3.4	445	<2	<4	<1	1827	<2
32990	<2	7	8.3	<4	<40	<1	5.2	238	<2	<4	<1	80	3
32993	11	10	5.6	<4	<40	<1	3.7	521	<2	<4	<1	33	<2
33000	3	<4	15.6	12	<40	<1	5.9	2050	<2	<4	<1	215	<2
33034	16	<4	14.9	5	<40	<1	7.9	704	<2	<4	<1	576	<2
33054	6	16	101.1	<4	<40	<1	14.1	10587	4	<4	<1	105	<2
33056	131	15	1.7	<4	146	<1	5.3	106	<2	<4	<1	31	3
33060	18	4	24.7	<4	<40	<1	19.7	1201	<2	<4	<1	229	<2
33062	54	25	86.8	23	<40	<1	9.9	11995	6	<4	<1	11018	6
33066	21	12	55.6	<4	<40	1	14.7	16657	9	<4	<1	892	<2
33077	22	<4	26.3	<4	<40	<1	7.8	9827	5	<4	<1	2500	<2
33081	9	41	33.6	12	<40	<1	7.5	4522	<2	11	1	2579	6
33085	31	6	26.5	10	<40	<1	9.7	2909	<2	4	1	2611	<2
33093	30	26	57.4	18	<40	<1	11.0	1423	<2	<4	<1	1229	<2
33092	6	27	48.5	4	<40	<1	8.1	3835	<2	5	2	295	3
33093	245	16	1.6	26	182	<1	17.5	245	7	6	<1	29	<2
33107	52	25	97.2	7	<40	<1	4.5	7752	2	<4	<1	5577	<2
33114	6	4	66.3	4	<40	1	8.9	9028	6	<4	<1	149	4
33116	10	25	73.8	29	<40	<1	3.3	3836	2	6	<1	615	12
33119	8	<4	28.2	22	<40	<1	15.9	1921	<2	19	<1	907	5
33122	32	<4	17.9	<4	<40	<1	7.2	4983	<2	<4	<1	872	<2
33128	7	6	9.5	22	<40	<1	6.2	2131	2	13	3	492	12
33133	9	<4	42.1	<4	<40	<1	5.4	3455	<2	<4	<1	195	<2
33137	5	6	9.2	<4	<40	<1	6.3	2151	2	<4	<1	311	<2
35109	2	20	124.0	<4	<40	<1	8.2	1466	<2	63	<1	425	2
35110	18	20	145.1	<4	<40	<1	12.6	9027	2	6	1	35	9
35124	9	95	467.2	21	<40	<1	6.0	4935	3	10	2	65	9
35126	9	16	320.1	35	<40	<1	0.5	6622	<2	<4	<1	82	<2
35130	19	24	61.7	<4	<40	<1	10.6	7314	<2	8	<1	239	3
35134	27	169	37.2	<4	<40	<1	10.9	4415	<2	<4	<1	1229	<2
35144	16	7	197.2	<4	<40	<1	6.7	9848	3	<4	<1	1109	<2
35145	24	17	54.6	4	<40	<1	8.9	4704	<2	4	<1	1423	<2
36251	13	<4	500.4	<4	<40	1	6.3	5877	7	<4	1	25	4
36255	4	7	118.8	<4	<40	<1	6.0	3230	<2	<4	<1	7567	<2
36265	22	<4	74.1	<4	<40	<1	7.0	4997	2	<4	<1	1164	<2
36266	6	8	38.5	14	<40	<1	6.2	1690	2	4	3	5	3
36382	3	10	3.5	6	<40	<1	4.1	98	<2	<4	<1	5	<2
36396	8	14	56.4	<4	<40	<1	11.1	2343	<2	<4	<1	218	<2
36399	7	<4	70.8	<4	<40	<1	9.0	4669	<2	<4	<1	121	<2
494127	3	<4	11.0	4	<40	<1	6.7	273	<2	8	<1	125	<2

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAJD	NTYP	DATE	HOUR	ATEM	WTEM	CUMM	MEAS	PH	CT-F
494132	P	35	32.965	105.443	2	06	04/22/78	11	25.0	10.4			7.5	500
494135	W	35	32.964	105.382	2	08	04/22/78	13	25.0	15.4			7.6	530
494139	S	35	32.923	105.400	2	07	04/22/78	14	25.0	18.8	L		7.5	680
494143	W	35	32.866	105.358	2	08	04/22/78	16	27.0	16.6			7.3	575
494144	W	35	32.884	105.426	2	08	04/22/78	16	26.0	16.4			7.2	800
494149	W	35	32.800	105.425	2	08	04/22/78	17	25.0	17.6	L		6.1	400
494150	W	35	32.827	105.402	2	08	04/22/78	17	24.0	17.6	C		7.8	500
494154	W	35	32.953	105.310	2	08	04/19/78	11	22.0	16.0			6.8	650
494156	P	35	32.932	105.280	2	06	04/19/78	12	22.0	15.0	L		7.0	375
494159	W	35	32.935	105.268	2	08	04/19/78	13	24.0	16.0			6.9	600
494160	W	35	32.947	105.253	2	08	04/19/78	13	24.0	16.0	L		7.3	450
494164	W	35	32.875	105.254	2	08	04/19/78	15	24.0	16.0	C		7.2	425
494167	W	35	32.916	105.337	2	08	04/19/78	17	23.0	15.0			7.0	800
494168	W	35	32.887	105.342	2	08	04/19/78	17	23.0	15.0			7.1	600
494170	W	35	32.886	105.362	2	08	04/19/78	17	23.0	15.0	C		7.2	625
494172	W	35	32.935	105.357	2	08	04/19/78	18	22.0	16.0	C		7.4	600
494174	W	35	32.845	105.373	2	08	04/22/78	10	23.0	16.0	C		6.9	700
494175	W	35	32.830	105.349	2	08	04/22/78	10	25.0	15.0	C		7.2	500
494177	W	35	32.862	105.289	2	08	04/22/78	12	26.0	15.0	C		7.0	2350
494178	W	35	32.851	105.279	2	08	04/22/78	13	27.0	17.0	C		7.4	300
494180	W	35	32.855	105.262	2	08	04/22/78	13	27.0	17.0	C		7.5	600
494184	W	35	32.800	105.242	2	08	04/22/78	14	27.0	18.0	C		6.8	600
494185	W	35	32.817	105.203	2	08	04/22/78	14	27.0	20.0			6.9	500
494187	W	35	32.790	105.291	2	08	04/22/78	15	27.0	21.0	L		6.8	600
494188	W	35	32.787	105.282	2	08	04/22/78	15	27.0	16.0	C		6.6	700
494193	W	35	32.782	105.315	2	08	04/22/78	16	27.0	18.0			7.0	700
494195	W	35	32.776	105.336	2	08	04/22/78	16	27.0	18.0	L		7.3	600
494199	W	35	32.896	105.214	2	08	04/23/78	11	26.0	18.0	C		7.3	800
494201	W	35	32.994	105.971	2	08	04/20/78	10	30.0	16.5			6.9	3100
494203	S	35	32.979	105.905	2	07	04/20/78	11	33.0	20.5			7.8	3800
494207	W	35	32.948	105.825	2	08	04/20/78	12	34.0	12.8			7.3	1850
494210	P	35	32.926	105.807	2	06	04/20/78	14	33.0	14.2	L		7.8	680
494217	S	35	32.823	105.768	2	07	04/20/78	16	30.0	10.8			8.0	485
494218	S	35	32.815	105.777	2	07	04/20/78	16	30.0	8.6			8.2	450
494222	P	35	32.564	105.854	2	06	04/20/78	18	27.0	15.5	C		8.1	1550
494234	P	35	32.874	105.835	2	06	04/21/78	17	32.0	11.2			7.8	750
494244	S	35	32.842	105.855	2	07	04/22/78	9	30.0	11.2			8.2	1250
494245	W	35	32.874	105.930	2	08	04/22/78	12	32.0	21.2			7.4	1180
494250	W	35	32.909	105.966	2	08	04/22/78	16	28.0	16.5			7.0	7500
494251	P	35	32.983	105.658	2	06	04/22/78	9	22.0	8.8	C		7.7	525
494252	S	35	32.998	105.663	2	07	04/22/78	10	22.0	11.6	C		7.6	525
494253	P	35	32.956	105.709	2	06	04/22/78	10	22.0	9.4			7.6	700
494254	P	35	32.959	105.626	2	06	04/22/78	10	23.0	12.7	L		7.7	550
494256	P	35	32.978	105.579	2	06	04/22/78	11	25.0	14.2	C		7.4	700
494260	P	35	32.986	105.531	2	06	04/22/78	12	25.0	22.2			7.8	420
494264	P	35	32.933	105.648	2	06	04/22/78	15	25.0	14.2			7.9	490
494266	P	35	32.942	105.626	2	06	04/22/78	15	24.0	17.1			8.2	330
494269	P	35	32.915	105.713	2	06	04/22/78	16	23.0	12.9			8.3	490
494272	P	35	32.887	105.705	2	06	04/22/78	17	22.0	13.1			7.6	500
494273	S	35	32.884	105.706	2	07	04/22/78	17	22.0	8.7			7.6	450
494274	P	35	32.897	105.724	2	06	04/22/78	18	22.0	7.8	C		7.7	490
494275	S	35	32.895	105.735	2	07	04/22/78	18	21.0	5.6			7.7	525
494277	P	35	32.888	105.671	2	06	04/23/78	10	24.0	11.8	L		7.4	500
494279	P	35	32.874	105.674	2	06	04/23/78	10	25.0	10.9			7.3	495
494281	P	35	32.870	105.516	2	06	04/23/78	11	25.0	14.3	C		7.3	525

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCUL	FLOW	WCOL	RELF	SKY	TWEL	DIAM (INCHES)	W-DP (FEET)	WATD (FEET)
494132	3	6	1	6	6	8	2	4	3	1				
494135	1	8	1	6			3	1	3	1	4			
494139	3	6	1	6	5	6	3	4	3	1				
494143	1	6	1	6			3	1	3	1	1			
494144	1	7	1	6			3	1	3	1	1	6		
494149	3	15	1	6			1	1	2	1	4			
494150	3	10	1	6			1	1	2	1	1			
494154	1	13	1	6			2	1	3	1	3			
494156	3	6	1	6	6	6	2	1	3	1				
494159	1	6	1	6			2	1	3	1	3		45	
494160	9	6	1	6				1	3	1	1	6		
494164	9	8	1	6				1	3	1	1			
494167	1	11	1	6			2	1	3	1	9			
494168	1	12	1	6			2	1	3	1	2	6		
494170	3	8	1	6				1	3	1	1	6		
494172	3	12	1	6				1	3	1	1			
494174	1	7	1	6			1	5	2	1	1			
494175	1	12	1	6			1	3	2	1	9			
494177	1	10	1	6			2	1	3	1	1			
494176	1	6	1	6			1	2	3	1	1			
494180	9	7	1	6			1	1	3	1	1			
494184	1	5	1	6			2	1	2	1	6			
494185	1	7	1	6			2	1	2	1	1	8		
494187	1	8	1	6			2	1	2	1	8			
494188	9	16	1	6			1	1	2	1	3	8		
494193	1	14	1	6			2	1	2	1	3	8		
494195	9	16	1	6			1	1	2	1	8			
494199	9	7	1	6			1	1	3	1	3			
494201	1	7	1	1			3	1	1	1	3	7	256	
494203	1	3	2	7	3	3	3	1	3	1				
494207	1		2	7			2	2	2	1		4		
494210	1	5	2	7	4	6	2	1	3	1				
494217	1	6	1	1	5	8	3	1	2	1				
494218	1	5	1	1	5	8	3	1	2	1				
494222	1	6	1	3	5	6	3	1	2	1				
494234	1	8	2	7	6	8	3	1	2	1				
494244	1	5	2	7	5	6	3	1	3	1				
494245	1	7	2	7			3	1	1	1	3	8	500	
494250	1	13	2	7			3	2	1	1	3	6	150	87
494251	1	11	1	6	5	6	3	1	2	2				
494252	3	13	1	6	5	6	3	1	2	2				
494253	3	9	1	6	5	6	2	1	2	2				
494254	1	9	1	6			2	1	2	2				
494256	1	6	1	6	5	6	2	1	2	2				
494260	3	16	1	6	5	6	2	5	2	2				
494264	3	13	1	6	5	6	2	1	3	2				
494266	1	16	1	6	5	6	2	1	3	2				
494269	1	9	1	6	5	6	2	1	2	2				
494272	3	16	1	6	5	6	2	1	2	2				
494273	3	11	1	6	5	6	3	1	2	2				
494274	3	13	1	6	5	6	3	1	2	2				
494275	3	15	1	6	5	6	3	1	2	2				
494277	1	10	1	6			3	1	3	2				
494279	3	5	1	6	5	6	3	1	3	2				
494281	3	2	1	1	5	1	3	1	3	2				

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	U	AG	AL	P	BA	BE	CA	CE	CO	CR	CU	FZ	K	LI	MG
494132		<2	288	48	177	<1	317.6	<30	<2	7	14	185	2.4	8	51.3
494135		<2	48	20	60	<1	116.0	<30	10	<4	8	73	0.8	4	22.7
494139		5	89	35	40	<1	141.3	31	<2	4	4	39	0.9	6	30.8
494143		5	12	21	44	<1	116.6	42	10	8	7	23	0.6	3	19.1
494144		<2	29	38	56	<1	168.0	<30	<2	<4	9	194	0.5	11	37.1
494149		<2	87	19	32	<1	51.8	<30	<2	<4	12	180	1.5	3	26.4
494150		<2	158	23	33	<1	62.7	<30	<2	<4	20	90	0.9	3	28.0
494154		<2	24	25	40	<1	118.2	<30	<2	<4	21	13	0.7	4	26.2
494156		<2	72	13	31	<1	70.8	<30	2	<4	4	47	0.5	2	13.0
494159		<2	10	24	49	<1	109.4	<30	<2	4	19	73	0.7	4	19.6
494160		<2	12	17	47	<1	96.9	<30	<2	<4	32	15	0.7	3	19.2
494164		<2	<10	16	37	<1	66.6	<30	<2	<4	11	15	0.5	4	17.0
494167		<2	26	28	41	<1	111.0	<30	<2	<4	11	17	0.8	3	26.5
494168		<2	29	24	51	<1	106.0	<30	<2	<4	18	29	0.9	4	27.6
494170		<2	45	29	35	<1	85.3	<30	<2	<4	14	35	1.0	4	28.7
494172		<2	142	22	36	<1	88.7	<30	2	<4	5	73	0.9	5	24.8
494174		<2	<10	43	41	<1	148.5	<30	<2	<4	17	15	0.8	5	35.7
494175		<2	23	22	57	<1	76.5	59	<2	5	12	15	1.0	3	27.2
494177		<2	41	225	13	<1	496.3	42	<2	6	4	41	2.0	79	108.6
494178		<2	153	22	64	<1	37.7	<30	6	<4	9	72	0.8	6	16.2
494180		3	19	40	22	<1	59.4	33	<2	6	3	47	0.8	10	37.4
494184		<2	23	29	52	<1	129.1	<30	<2	<4	2	14	0.7	4	26.5
494185		<2	32	25	17	<1	64.3	<30	7	<4	2	11	0.3	3	26.1
494187		<2	11	30	53	<1	125.7	<30	<2	<4	9	13	1.0	4	27.1
494188		<2	17	29	49	<1	130.3	<30	<2	<4	3	<10	0.8	4	29.1
494193		2	32	26	49	<1	131.0	39	<2	<4	3	43	0.7	4	24.9
494195		<2	73	23	27	<1	75.2	<30	<2	<4	5	53	0.8	5	35.0
494199		<2	17	47	23	<1	108.8	<30	<2	<4	5	17	0.2	10	48.1
494201		4	89	108	17	<1	330.6	<30	<2	7	406	61	7.0	31	127.0
494203		6	70	175	49	<1	517.5	63	<2	10	10	51	4.2	49	143.9
494207		<2	46	182	230	<1	165.2	<30	2	<4	2	1036	3.4	30	102.8
494210		4	58	17	48	<1	128.8	32	2	7	10	38	1.8	4	24.3
494217		9	15	14	30	<1	87.7	73	7	7	<2	14	1.3	<2	11.4
494218		<2	61	6	20	<1	76.0	<30	<2	<4	<2	<10	1.1	<2	9.2
494222		2	136	130	25	<1	292.6	<30	<2	4	10	97	1.9	36	93.8
494234		5	39	25	32	<1	119.3	<30	8	4	11	35	4.5	4	28.8
494244		4	37	60	37	<1	214.6	<30	<2	5	3	35	2.2	13	56.1
494245		<2	144	70	31	<1	178.6	<30	<2	<4	27	137	3.5	15	68.4
494250		<2	57	195	24	<1	830.8	<30	<2	<4	15	3786	3.2	44	324.0
494251		<2	<10	12	24	<1	100.1	<30	<2	<4	2	<10	0.4	<2	9.2
494252		<2	35	12	30	<1	101.9	<30	<2	<4	<2	<10	0.4	2	15.6
494253		6	26	12	37	<1	93.0	47	9	9	<2	11	0.2	2	8.1
494254		<2	16	13	28	<1	98.9	<30	<2	<4	5	<10	0.3	2	15.5
494256		2	36	15	33	<1	123.1	<30	4	<4	8	<10	0.4	2	19.2
494260		<2	101	18	6	<1	71.7	<30	<2	<4	8	59	0.3	2	13.5
494264		<2	35	15	35	<1	77.0	34	6	<4	21	19	0.4	2	17.3
494266		5	31	14	17	<1	40.6	<30	7	6	3	23	0.4	2	14.6
494269		<2	17	10	24	<1	78.4	<30	<2	<4	<2	<10	0.4	2	12.0
494272		3	13	13	43	<1	86.3	<30	<2	<4	<2	10	0.4	2	14.2
494273		<2	<10	10	31	<1	72.8	<30	2	<4	<2	<10	0.4	2	13.6
494274		<2	427	18	30	<1	80.7	<30	<2	<4	12	233	1.1	2	11.7
494275		4	16	12	32	<1	98.6	<30	<2	<4	<2	<10	0.3	2	14.9
494277		<2	24	12	36	<1	89.6	<30	<2	<4	<2	<10	0.4	2	16.0
494279		<2	27	14	29	<1	99.0	<30	<2	4	<2	10	0.4	<2	12.3
494281		2	43	12	38	<1	106.5	<30	<2	4	<2	29	0.5	3	17.5

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMP_E	MN	MO	NA	NI	P	SC	SI	SR	TI	V	Y	ZN	ZR
494132	88	<4	27.1	<4	50	<1	13.0	1215	4	22	2	122	<2
494135	3	<4	12.3	4	<40	<1	6.0	442	<2	15	<1	214	3
494139	10	15	21.4	5	<40	<1	5.6	1257	<2	12	1	17	7
494143	20	<4	7.2	12	<40	<1	4.7	571	<2	6	2	555	14
494144	42	5	20.0	28	<40	<1	6.7	1128	2	8	1	4765	12
494149	6	<4	11.5	4	<40	<1	3.9	372	<2	<4	<1	<4	<2
494150	11	5	10.5	11	67	<1	3.7	501	2	<4	<1	125	<2
494154	4	<4	12.8	19	<40	<1	4.8	851	<2	<4	<1	1546	<2
494156	2	<4	4.5	5	<40	<1	4.6	236	<2	<4	<1	<4	<2
494159	3	<4	9.4	31	<40	<1	5.1	571	<2	6	1	75	<2
494160	5	13	7.0	55	<40	<1	5.8	341	<2	<4	1	143	<2
494164	J	12	6.0	5	<40	<1	5.4	348	<2	<4	<1	203	<2
494167	6	<4	7.7	<4	<40	<1	5.0	879	<2	13	<1	294	<2
494168	8	24	7.3	<4	<40	<1	5.6	726	<2	11	<1	821	<2
494170	3	19	8.8	<4	<40	<1	5.5	872	<2	6	1	12	11
494172	6	13	10.6	<4	<40	<1	4.0	745	<2	9	1	74	5
494174	21	4	8.3	4	<40	<1	5.3	1650	<2	<4	<1	247	3
494175	7	<4	7.6	17	<40	<1	4.6	460	<2	17	1	523	12
494177	44	4	30.6	44	<40	<1	14.1	5583	5	9	2	95	15
494178	5	<4	12.3	15	<40	<1	10.3	157	2	<4	<1	39	<2
494180	3	4	15.8	17	<40	<1	4.7	930	<2	12	1	7	6
494184	2	5	6.6	<4	<40	<1	5.2	1050	<2	<4	<1	409	<2
494185	<2	<4	6.8	<4	<40	<1	3.8	782	<2	<4	<1	5	<2
494187	2	<4	7.0	10	<40	<1	5.1	1064	<2	15	1	179	8
494188	<2	4	7.3	<4	<40	<1	5.1	1273	<2	7	1	5	9
494193	3	<4	6.4	18	<40	<1	5.1	889	<2	7	2	55	9
494195	4	<4	8.7	5	<40	<1	1.7	1332	<2	<4	<1	15	<2
494199	3	<4	26.6	<4	<40	<1	7.3	1811	<2	<4	<1	9	<2
494201	14	<4	272.3	<4	219	<1	8.6	5381	5	<4	1	137	<2
494203	91	4	598.7	<4	<40	2	8.4	7574	9	<4	2	55	5
494207	225	7	174.5	<4	43	<1	10.1	1880	<2	<4	<1	43	<2
494210	2	4	15.5	4	<40	<1	5.1	575	2	11	1	69	8
494217	3	21	4.9	7	<40	<1	3.2	300	<2	23	2	7	19
494218	<2	<4	4.4	<4	<40	<1	2.6	204	<2	<4	<1	<4	<2
494222	9	<4	140.7	18	<40	<1	16.6	3995	5	<4	1	42	<2
494234	3	<4	18.2	69	<40	<1	5.0	782	<2	9	1	35	6
494244	8	15	40.5	7	<40	<1	6.2	2029	3	<4	1	25	2
494245	8	<4	60.4	173	<40	<1	10.5	1897	2	<4	<1	114	<2
494250	240	<4	509.4	43	<40	3	9.1	15090	16	<4	1	5739	<2
494251	<2	6	5.6	<4	<40	<1	3.4	374	<2	7	<1	<4	<2
494252	3	<4	14.3	12	<40	<1	3.6	533	<2	<4	<1	15	<2
494253	8	11	58.0	26	<40	<1	4.1	440	<2	12	2	20	10
494254	<2	<4	81.4	8	<40	<1	4.3	541	<2	<4	<1	17	3
494256	2	5	10.3	37	<40	<1	4.7	543	<2	14	<1	42	2
494260	18	<4	9.8	8	<40	<1	4.2	420	<2	<4	<1	23	<2
494264	3	9	11.6	40	<40	<1	5.2	635	<2	8	1	15	3
494266	9	5	9.6	9	<40	<1	0.5	323	<2	8	2	27	3
494269	3	7	10.9	<4	<40	<1	3.8	488	<2	<4	<1	14	<2
494272	<2	6	7.1	24	<40	<1	4.4	346	<2	8	1	15	6
494273	<2	<4	7.0	13	<40	<1	4.0	329	<2	<4	<1	<4	4
494274	30	<4	8.5	9	55	<1	4.3	416	5	<4	<1	41	<2
494275	5	7	6.0	<4	<40	<1	3.4	321	<2	<4	1	15	<2
494277	<2	<4	8.7	<4	<40	<1	4.6	476	<2	<4	<1	125	<2
494279	2	21	6.5	<4	<40	<1	4.0	369	<2	<4	1	5	2
494281	<2	<4	10.8	<4	<40	<1	5.6	418	<2	15	2	15	15

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMP_E	TYPE	STAT	LAT	LUNG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	CUM4	MEAS	PH	CT-F
494282	P	35	32.867	105.524	2	06	04/23/78	12	26.0	14.1	C		6.9	500
494285	P	35	32.872	105.571	2	06	04/23/78	13	27.0	12.6	C		7.2	500
494286	P	35	32.916	105.611	2	06	04/23/78	14	26.0	10.8	C		7.8	500
494290	P	35	32.836	105.583	2	06	04/23/78	16	25.0	18.9			8.0	390
494295	P	35	32.781	105.543	2	06	04/23/78	17	24.0	15.1	C		8.2	160
494296	P	35	32.805	105.541	2	06	04/23/78	18	22.0	10.4			7.8	600
494297	S	35	32.796	105.579	2	07	04/23/78	18	21.0	13.2			7.9	440
494299	P	35	32.790	105.576	2	06	04/23/78	18	21.0	10.8			7.9	330
494303	W	35	32.810	105.456	2	08	04/22/78	18	20.0	18.2	C		7.5	600
494306	W	35	32.768	105.463	2	08	04/23/78	10	24.0	17.6	C		6.6	1900
494308	W	35	32.740	105.480	2	08	04/23/78	11	25.0	12.6			6.9	520
494311	W	35	32.701	105.449	2	08	04/23/78	11	26.0	19.8			6.7	700
494316	W	35	32.762	105.393	2	08	04/23/78	13	26.0	17.2			6.8	900
494318	W	35	32.743	105.371	2	08	04/23/78	14	26.0	16.8			6.8	800
494320	W	35	32.707	105.359	2	08	04/23/78	14	28.0	15.4			7.2	800
494323	W	35	32.676	105.439	2	08	04/23/78	14	28.0	14.8	C		7.2	2200
494327	W	35	32.660	105.477	2	08	04/23/78	15	28.0	15.2	C		7.6	500
494329	W	35	32.630	105.453	2	08	04/23/78	15	27.0	17.4	C		7.3	550
494333	W	35	32.641	105.260	2	08	04/23/78	17	26.0	16.1			7.6	445
494335	W	35	32.648	105.351	2	08	04/23/78	17	24.0	18.6	C		7.5	700
494337	W	35	32.644	105.317	2	08	04/23/78	18	21.0	23.4			7.5	460
494339	W	35	32.736	105.296	2	08	04/24/78	12	24.0	17.4			7.4	750
494346	W	35	32.665	105.282	2	08	04/24/78	13	27.0	19.6	C		7.8	470
494347	W	35	32.678	105.309	2	08	04/24/78	13	26.0	16.8	C		7.9	500
494350	W	35	32.661	105.200	2	08	04/24/78	14	27.0	15.4	C		7.8	900
494351	W	35	32.918	105.981	2	08	04/22/78	16	28.0	17.8			7.1	2100
494352	W	35	32.835	105.574	2	08	04/22/78	16	28.0	21.4			7.6	1300
494353	W	35	32.815	105.977	2	08	04/22/78	17	28.0	19.8			7.6	1100
494354	W	35	32.816	105.959	2	08	04/22/78	17	28.0	21.2			7.4	1200
494372	W	35	32.916	105.958	2	08	04/24/78	18	26.0	15.8			7.8	8400
494373	S	35	32.745	105.912	2	07	04/24/78	18	26.0	18.6			7.7	950
494374	S	35	32.711	105.744	2	07	04/25/78	10	28.0	11.5			7.5	480
494375	S	35	32.710	105.742	2	07	04/25/78	10	28.0	11.2			8.1	395
494379	P	35	32.712	105.686	2	06	04/25/78	11	28.0	8.5			7.4	580
494380	P	35	32.710	105.681	2	06	04/25/78	11	28.0	9.0			7.2	560
494383	P	35	32.696	105.631	2	06	04/25/78	12	26.0	17.2			7.5	600
494386	P	35	32.682	105.693	2	06	04/25/78	14	28.0	17.2			7.7	1540
494388	P	35	32.660	105.647	2	06	04/25/78	15	28.0	10.8			7.8	445
494390	P	35	32.652	105.662	2	06	04/25/78	15	28.0	9.8			7.6	540
494393	W	35	32.658	105.935	2	08	04/25/78	18	26.0	21.2			7.8	900
494401	W	35	32.898	105.145	2	08	04/23/78	11	28.0	18.0			6.9	700
494402	W	35	32.924	105.132	2	08	04/23/78	11	27.0	20.0			6.9	600
494404	W	35	32.934	105.172	2	08	04/23/78	12	27.0	23.0			6.9	500
494407	W	35	32.951	105.169	2	08	04/23/78	15	27.0	19.0			6.9	450
494412	W	35	32.868	105.160	2	08	04/24/78	12	26.0	17.0	C		6.9	800
494413	W	35	32.871	105.161	2	08	04/24/78	13	26.0	20.0	C		7.3	800
494415	W	35	32.992	105.023	2	08	04/23/78	15	28.0	20.0	C		6.9	600
494416	W	35	32.565	105.009	2	08	04/23/78	15	28.0	19.0			7.0	600
494419	W	35	32.576	105.131	2	08	04/23/78	16	28.0	15.0	C		7.3	1600
494420	W	35	32.963	105.113	2	08	04/23/78	17	28.0	18.0			7.4	900
494422	W	35	32.546	105.080	2	08	04/23/78	17	27.0	18.0			7.3	650
494429	W	35	32.848	105.102	2	08	04/24/78	14	26.0	20.0	C		6.8	800
494431	W	35	32.826	105.111	2	08	04/24/78	14	27.0	17.0	C		7.1	800
494432	W	35	32.807	105.134	2	08	04/24/78	15	27.0	17.0	C		7.3	1700
494433	W	35	32.783	105.112	2	08	04/24/78	15	27.0	17.0	C		7.4	1500

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	TWEL	DIAM (INCHES)	W-DP (FEET)	WATO (FEET)
494282	1	9	1	6			3	1	3	2				
494285	3	10	1	1			3	1	2	2				
494286	1	17	1	6			3	1	2	2				
494293	3	8	1	6	5	6	2	1	2	2				
494295	3	9	1	6	5	6	2	4	2	2				
494296	3	4	1	6	5	6	2	1	2	2				
494297	3	6	1	6	5	6	3	1	2	2				
494299	3	6	1	6	5	6	2	1	2	2				
494303	1	11	1	6			1	1	2	1	4		250	
494305	1	11	1	6			3	1	2	1	8			
494303	1	6	1	6			4	1	2	1	3	12		
494311	1	10	1	6			3	2	2	1	4	6		
494315	1	13	1	6			3	1	3	1	1	4		
494313	1	6	1	6			3	2	2	1	1	4		
494323	1	10	1	6			3	1	2	1	3	8	590	
494323	1	18	1	6			1	1	2	1	4			
494327	3	11	1	6			1	1	3	1	4			
494329	1	16	1	6			3	1	2	1	4		999	
494333	1	5	1	6			2	1	3	1	1		32	
494335	1	13	1	6			3	1	2	1	4		999	
494337	1	6	1	6			3	1	2	1	4		950	
494339	1	16	1	6			3	1	2	1	1			
494345	1	10	1	6			3	3	2	1	8		600	
494347	3	11	1	6			1	1	2	2	4		900	
494353	3	6	1	6			1	1	3	1	4			
494351	1	10	2	7			3	1	1	1	3	6	250	72
494352	1	9	2	7			3	1	1	1		6		
494353	1	5	2	7			3	1	1	1	3	8	120	60
494354	1	10	2	7			3	1	1	1	6	6		
494372	1	6	2	7			3	1	1	1	8	8		
494373	1	1	2	7	5	6	2	1	3	2				
494374	1	12	2	7	6	8	4	1	2	2				
494375	1	3	2	7	5	6	4	1	2	2				
494379	1	14	2	7	6	8	4	1	2	2				
494380	1	14	2	7	5	6	3	1	2	2				
494383	1	8	2	7	6	8	2	1	2	2				
494385	1	4	2	7	6	8	2	1	3	2				
494383	1	1	4	4	5	6	3	1	2	3				
494393	1	4	2	7	2	7	5	1	3	3				
494393	1	10	2	7			3	1	1	2	1	8		
494401	1	5	1	6			2	1	2	1	1			
494402	1	10	1	6			2	2	2	1	1	8		
494404	1	7	1	6			2	1	2	1	1			
494407	1	7	1	6			2	1	2	1	1			
494412	1	9	1	6			2	1	2	2	9		500	
494413	1	7	1	6			2	1	2	2	2		700	
494415	1	8	1	6			2	6	2	2	1			
494415	1	8	1	6			3	1	2	1	1			
494419	3	14	1	6			1	1	2	1	1			
494423	1	9	1	6			2	2	2	1	1			
494422	1	8	1	6			2	1	2	1	1	8		
494423	1	8	1	6			2	1	2	2	1	8	700	
494431	1	12	1	6			1	2	2	2	1		651	
494432	1	6	1	6			1	1	2	1	1	4	714	
494433	1	9	1	6			1	2	2	1	1		700	

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	U	AG	AL	B	HA	HE	CA	CE	CO	CR	CU	FE	K	LI	MG
494292	2	17	18	55	<1	96.5	<30	<2	<4	<2	<10	0.4	4	21.0	
494295	<2	22	14	39	<1	112.6	<30	<2	<4	<2	<10	0.4	2	12.9	
494296	4	30	13	27	<1	95.2	<30	<2	<4	2	14	0.4	2	17.0	
494297	9	<10	21	28	<1	63.2	38	17	8	<2	<10	0.4	2	13.9	
494298	4	4572	18	37	<1	26.3	5229	2	4	16	2230	2.5	4	4.4	
494299	<2	<10	13	37	<1	130.0	3721	<2	<4	6	<10	0.5	2	11.9	
494299	<2	19	18	33	<1	70.8	3342	<2	<4	<2	<10	0.5	2	17.9	
494300	<2	26	15	21	<1	50.7	3001	3	<4	2	17	0.6	2	12.8	
494303	<2	<10	24	43	<1	126.5	269	<2	<4	11	19	0.8	3	20.4	
494306	<2	34	165	57	<1	423.9	6019	<2	<4	6	110	1.0	24	90.6	
494308	<2	45	18	36	<1	129.3	30	3	<4	5	31	0.5	2	13.3	
494311	<2	48	24	589	<1	128.1	<30	<2	4	3	154	0.9	3	25.5	
494316	<2	30	53	41	<1	166.7	<30	<2	<4	8	81	0.8	6	32.5	
494318	3	11	61	37	<1	186.0	<30	4	<4	5	261	0.8	7	38.5	
494320	<2	32	46	29	<1	175.3	<30	5	<4	2	69	0.7	7	36.6	
494323	<2	29	162	16	<1	473.6	<30	<2	<4	5	29	1.5	44	121.6	
494327	<2	38	15	84	<1	89.0	<30	<2	5	2	<10	1.6	4	17.7	
494329	<2	91	23	102	<1	112.9	<30	<2	<4	3	198	0.8	4	25.5	
494333	<2	181	26	41	<1	74.6	55	<2	4	19	27	0.6	5	12.8	
494335	<2	41	42	38	<1	150.0	<30	<2	<4	5	22	0.8	7	34.4	
494337	<2	21	32	151	<1	49.4	<30	<2	<4	<2	59	1.2	12	21.8	
494339	<2	15	42	33	<1	142.7	<30	<2	<4	4	29	0.7	7	33.9	
494346	<2	80	24	87	<1	61.5	<30	2	<4	21	25	0.9	10	27.6	
494347	<2	17	22	127	<1	72.2	<30	4	<4	4	11	0.8	6	24.8	
494350	3	31	62	45	<1	137.3	59	4	<4	2	23	1.1	22	47.5	
494351	<2	52	87	16	<1	184.0	43	<2	<4	14	43	1.8	15	59.7	
494352	<2	51	54	15	<1	134.4	<30	2	<4	8	23	1.6	14	55.6	
494353	4	38	52	20	<1	131.9	<30	14	4	8	27	2.0	13	50.8	
494354	4	127	63	37	<1	174.6	<30	<2	5	20	107	2.2	14	68.1	
494372	<2	118	276	32	<1	665.1	<30	<2	<4	32	107	12.4	66	357.4	
494373	<2	20	43	42	<1	117.8	<30	<2	<4	7	<10	3.2	11	37.4	
494374	<2	32	17	27	<1	119.5	<30	<2	<4	6	20	2.1	2	12.7	
494375	<2	21	10	20	<1	81.2	<30	<2	<4	2	<10	1.0	<2	8.5	
494379	<2	42	14	19	<1	118.6	<30	6	<4	3	11	0.9	<2	7.9	
494380	3	27	13	20	<1	127.6	<30	7	<4	7	11	0.6	<2	8.7	
494383	4	63	24	54	<1	162.5	<30	5	4	10	137	3.6	2	15.8	
494386	5	16	85	41	<1	291.8	31	6	<4	3	24	1.5	25	66.1	
494388	<2	76	15	25	<1	104.8	39	<2	<4	10	54	1.1	2	12.1	
494390	6	53	15	31	<1	104.1	77	8	4	5	52	0.8	<2	12.1	
494393	4	16	156	31	<1	78.8	66	<2	10	9	10	4.7	54	49.6	
494401	2	11	34	34	<1	126.7	<30	6	<4	8	14	0.7	7	28.9	
494402	2	<10	31	39	<1	99.6	<30	<2	<4	6	80	0.7	6	28.0	
494404	3	<10	22	51	<1	81.4	47	10	<4	3	23	0.6	4	18.9	
494407	<2	19	18	65	<1	73.2	<30	<2	<4	9	33	0.6	4	22.8	
494412	<2	20	43	31	<1	146.6	<30	<2	<4	6	127	1.8	8	37.2	
494413	<2	32	43	30	<1	135.7	<30	<2	<4	5	24	1.1	7	34.2	
494415	2	15	31	39	<1	102.3	<30	5	<4	7	<10	0.9	6	27.6	
494416	<2	18	28	42	<1	100.3	<30	<2	<4	11	63	0.8	6	27.6	
494419	3	259	103	149	<1	260.8	30	3	4	19	160	33.9	20	98.3	
494420	<2	97	35	34	<1	132.2	<30	<2	<4	9	61	0.8	7	33.8	
494422	<2	56	40	38	<1	135.0	<30	<2	<4	60	154	1.0	7	34.6	
494429	<2	34	35	28	<1	104.8	<30	<2	<4	8	960	0.9	7	32.6	
494431	<2	111	60	34	<1	145.8	<30	<2	<4	16	60	1.2	10	42.3	
494432	<2	30	220	11	<1	302.2	<30	<2	<4	3	21	2.7	59	97.3	
494433	5	15	156	36	<1	284.9	<30	10	<4	7	20	2.0	48	102.6	

Table 5, Continued
DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	MN	MC	NA	NI	P	SC	SI	SR	TI	V	Y	ZV	ZK
494282	2	<4	11.6	<4	<40	<1	5.7	419	<2	7	1	15	<2
494285	<2	<4	8.5	<4	<40	<1	4.9	405	<2	<4	<1	9	2
494286	3	6	8.3	<4	<40	<1	4.6	408	<2	5	2	15	7
494290	3	21	7.1	<4	<40	<1	4.4	321	<2	13	3	5	14
494295	28	<4	4.3	19	76	<1	10.8	152	32	5	1	30	10
494296	2	<4	5.7	14	<40	<1	4.1	323	<2	14	<1	20	<2
494297	4	<4	6.7	<4	<40	<1	4.2	313	<2	4	<1	5	<2
494298	<2	19	5.0	<4	<40	<1	1.7	242	<2	<4	<1	5	<2
494303	7	9	7.8	8	<40	<1	5.3	594	2	5	2	735	2
494306	15	14	12.7	4	<40	<1	6.8	9531	4	<4	1	3344	<2
494308	2	<4	5.1	<4	<40	<1	4.6	340	<2	9	<1	1618	<2
494311	24	15	8.8	11	<40	<1	5.1	736	<2	<4	<1	1500	<2
494316	18	<4	7.0	<4	<40	<1	5.3	2755	<2	6	<1	381	3
494318	26	<4	9.2	<4	<40	<1	5.2	3026	2	7	1	241	11
494320	13	<4	7.3	<4	<40	<1	4.8	2673	<2	9	<1	2041	4
494323	91	25	21.5	<4	<40	1	12.5	11105	7	<4	<1	1447	<2
494327	6	<4	7.0	<4	<40	<1	4.7	395	<2	<4	<1	60	<2
494329	6	<4	6.5	5	<40	<1	5.3	993	<2	8	<1	1413	<2
494333	4	<4	8.5	<4	<40	<1	5.0	214	<2	6	<1	111	<2
494335	15	<4	8.4	<4	<40	<1	5.6	2018	<2	<4	<1	1252	<2
494337	11	8	9.3	<4	<40	<1	7.1	489	<2	<4	<1	75	<2
494339	38	<4	8.4	<4	<40	<1	5.2	1638	<2	<4	<1	466	<2
494346	8	<4	10.9	<4	<40	<1	6.4	284	<2	5	<1	213	<2
494347	5	25	8.6	6	<40	<1	5.7	454	<2	<4	<1	58	<2
494350	12	<4	20.1	9	<40	<1	8.3	2777	<2	13	1	280	17
494351	7	7	156.0	4	<40	<1	7.0	2651	<2	14	2	213	<2
494352	5	9	63.7	<4	<40	<1	10.1	1337	<2	<4	<1	155	<2
494353	5	<4	52.9	8	<40	<1	11.8	1326	<2	10	2	418	<2
494354	8	<4	67.6	<4	43	<1	12.6	1642	4	6	1	65	<2
494372	33	<4	909.5	5	131	3	13.7	13647	17	<4	2	69	<2
494373	3	<4	32.9	13	<40	<1	6.5	1045	<2	<4	<1	9	<2
494374	3	15	5.5	<4	<40	<1	4.1	337	<2	<4	<1	5	9
494375	<2	<4	3.0	<4	<40	<1	2.9	185	<2	<4	<1	5	<2
494379	<2	21	2.7	<4	<40	<1	3.1	174	<2	<4	<1	11	<2
494380	2	5	2.8	21	<40	<1	3.3	183	<2	4	<1	10	4
494383	109	20	3.9	6	45	<1	4.6	396	2	5	<1	29	7
494386	43	29	33.6	23	<40	<1	6.6	2500	3	8	1	6	11
494388	4	<4	3.9	<4	<40	<1	4.5	257	<2	7	<1	23	<2
494390	4	<4	3.8	<4	<40	<1	5.1	217	<2	5	2	11	2
494393	17	25	74.0	6	<40	<1	11.9	2455	<2	17	2	75	16
494401	16	<4	11.7	12	<40	<1	5.3	1125	<2	<4	1	2325	<2
494402	39	9	10.2	11	<40	<1	5.2	737	<2	<4	1	571	<2
494404	15	<4	6.7	4	<40	<1	4.7	357	2	8	2	580	<2
494407	14	<4	10.9	<4	<40	<1	5.0	242	<2	5	<1	391	<2
494412	7	<4	23.2	<4	<40	<1	5.9	1612	<2	<4	<1	85	<2
494413	85	10	21.7	27	<40	<1	3.5	1427	<2	<4	<1	925	<2
494415	133	19	11.2	17	<40	<1	4.8	686	<2	<4	<1	2053	7
494416	4	<4	13.2	14	<40	<1	5.5	824	<2	<4	<1	75	<2
494419	120	29	18.5	<4	910	<1	11.6	1236	5	14	2	56	9
494420	7	<4	18.0	4	<40	<1	5.3	1201	2	<4	<1	1235	<2
494422	44	<4	18.4	15	<40	<1	5.6	1187	2	<4	<1	482	<2
494429	32	<4	17.5	5	<40	<1	5.2	1324	<2	<4	<1	357	<2
494431	10	6	17.9	<4	<40	<1	5.7	2107	2	<4	<1	108	<2
494432	20	23	30.1	20	<40	<1	5.9	6691	3	<4	<1	51	12
494433	11	10	24.4	11	<40	<1	7.2	6626	3	4	2	115	9

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	COMM	MLAS	PH	CT-F
494436	W	35	32.751	105.115	2	08	04/24/78	16	27.0	18.0	L		7.1	900
494440	W	35	32.823	105.152	2	08	04/24/78	17	23.0	18.0	C		7.3	1400
494443	W	35	32.874	105.128	2	08	04/24/78	18	24.0	15.0	C		7.6	850
494444	W	35	32.887	105.111	2	09	04/24/78	18	24.0	18.0	C		7.6	850
494445	W	35	32.895	105.079	2	08	04/24/78	19	23.0	16.0	C		7.7	700
494447	W	35	32.887	105.012	2	08	04/25/78	11	23.0	17.0			7.2	650
494449	W	35	32.862	105.022	2	08	04/25/78	12	24.0	17.0	C		7.4	850
494451	S	35	32.850	105.616	2	07	04/24/78	10	22.0	13.4			7.6	390
494454	S	35	32.837	105.712	2	07	04/24/78	11	25.0	16.4			7.7	360
494455	P	35	32.829	105.741	2	06	04/24/78	11	26.0	8.1	C		7.4	470
494457	S	35	32.801	105.731	2	07	04/24/78	13	26.0	18.6			7.8	370
494458	P	35	32.806	105.722	2	06	04/24/78	13	26.0	8.9	C		7.6	470
494459	P	35	32.826	105.657	2	06	04/24/78	14	26.0	12.9			7.8	390
494460	P	35	32.811	105.641	2	06	04/24/78	15	25.0	8.8	C		7.6	500
494461	P	35	32.796	105.686	2	06	04/24/78	15	25.0	10.0	C		7.3	575
494462	S	35	32.795	105.689	2	07	04/24/78	16	24.0	16.8			7.4	340
494463	P	35	32.807	105.660	2	06	04/24/78	16	24.0	11.2			7.5	485
494464	P	35	32.766	105.653	2	06	04/24/78	17	24.0	9.9			7.4	500
494465	P	35	32.751	105.669	2	06	04/24/78	17	22.0	6.9			7.4	525
494467	P	35	32.775	105.624	2	06	04/24/78	18	21.0	8.6	C		7.3	525
494469	P	35	32.774	105.658	2	06	04/24/78	18	20.0	7.2	C		7.4	500
494470	P	35	32.777	105.643	2	06	04/24/78	19	20.0	8.2	C		7.5	500
494471	P	35	32.785	105.654	2	06	04/24/78	19	19.0	10.6			7.6	430
494474	P	35	32.738	105.587	2	06	04/25/78	10	24.0	12.8	C		7.3	500
494475	P	35	32.740	105.597	2	06	04/25/78	11	24.0	11.9	C		7.3	525
494476	P	35	32.732	105.613	2	06	04/25/78	11	24.0	14.2	C		7.5	525
494477	S	35	32.733	105.610	2	07	04/25/78	11	25.0	21.3	C		7.7	430
494482	P	35	32.681	105.552	2	06	04/25/78	13	25.0	14.2	C		8.2	650
494484	P	35	32.667	105.526	2	06	04/25/78	14	26.0	15.9	C		8.0	500
494490	W	35	32.611	105.344	2	08	04/25/78	16	24.0	15.6			7.9	390
494494	W	35	32.571	105.365	2	08	04/25/78	19	25.0	15.1	C		7.9	600
494498	W	35	32.596	105.363	2	08	04/25/78	18	23.0	14.6			7.8	600
494499	W	35	32.574	105.272	2	08	04/26/78	11	26.0	18.9	C		7.5	825
494601	W	35	32.666	105.908	2	08	04/26/78	11	30.0	21.8			7.4	1450
494602	W	35	32.747	105.953	2	08	04/26/78	11	30.0	24.6			7.3	1400
494603	W	35	32.755	105.989	2	08	04/26/78	12	30.0	21.4			7.3	3800
494604	W	35	32.773	105.984	2	08	04/26/78	12	30.0	18.8			7.2	1150
494605	W	35	32.846	105.972	2	08	04/26/78	12	32.0	24.8			7.1	2700
494610	W	35	32.295	105.366	2	08	04/26/78	16	32.0	24.3	C		7.2	1150
494621	W	35	32.343	105.322	2	08	04/27/78	12	32.0	18.2			7.4	650
494622	W	35	32.232	105.347	2	08	04/27/78	13	30.0	18.8			7.4	1100
494636	W	35	32.054	105.324	2	08	04/27/78	16	30.0	20.5			7.8	2350
494639	W	35	32.089	105.371	2	08	04/27/78	16	30.0	20.5			7.5	2450
494640	W	35	32.036	105.358	2	08	04/27/78	17	30.0	25.2			7.6	1300
494643	W	35	32.021	105.331	2	08	04/27/78	17	28.0	20.4			7.4	2200
494645	W	35	32.044	105.273	2	08	04/27/78	18	28.0	20.2			7.5	1100
494651	W	35	32.720	105.168	2	08	04/25/78	11	26.0	24.1			6.9	1000
494656	W	35	32.620	105.074	2	08	04/25/78	13	25.0	17.4	C		8.1	340
494658	W	35	32.551	105.005	2	08	04/26/78	12	28.0	25.4	C		7.3	2500
494659	W	35	32.498	105.071	2	08	04/26/78	13	28.0	17.6			7.2	500
494661	W	35	32.491	105.042	2	08	04/26/78	14	28.0	18.8	C		6.8	1400
494666	W	35	32.442	105.019	2	08	04/26/78	15	27.0				7.7	470
494674	W	35	32.368	105.171	2	08	04/27/78	12	27.0	18.2	C		6.7	900
494676	W	35	32.315	105.108	2	08	04/27/78	13	29.0	23.5	C		8.1	1825
494678	W	35	32.341	105.060	2	08	04/27/78	13	29.0	23.4	C		7.5	1050

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	CMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	TWL	DIAM (INCHES)	W-UP (FEET)	WATD (FEET)
494436	1	5	1	6			2	1	2	2	1			
494440	1	6	1	6			2	1	2	2	1		819	
494443	1	9	1	6			1	2	2	2	1			
494444	1	16	1	6			1	2	2	1	1			
494445	1	7	1	6			1	1	2	1	9			
494447	1	5	1	6			3	1	2	2	1			
494449	1	3	1	6			1	2	2	2	1	8		
494451	3	12	1	6	5	6	3	4	1	2				
494454	3	9	1	6	5	6	3	4	3	2				
494455	1	6	1	6	5	6	3	1	3	2				
494457	3	11	1	6	5	6	3	1	2	2				
494458	1	12	1	1	5	6	3	1	2	2				
494459	3	9	1	1	5	6	2	1	2	2				
494460	1	9	1	6			3	1	3	2				
494461	1	9	1	1	5	6	3	1	2	2				
494462	3	10	1	6	5	6	3	1	2	2				
494463	3	15	1	6	5	6	2	1	3	2				
494464	1	9	1	6	5	6	2	1	3	2				
494465	3	16	1	6	5	6	2	1	3	2				
494467	1	5	1	1			3	1	3	2				
494469	1	9	1	1	5	6	2	1	3	2				
494470	1	6	1	6			3	1	3	2				
494471	3	6	1	6	5	6	3	1	3	2				
494474	1	9	1	1	5	6	3	1	2	2				
494475	1	11	1	1	5	6	3	1	2	2				
494476	1	20	1	1	5	6	3	1	2	2				
494477	3	9	1	1	5	6	3	1	2	2				
494482	3	13	1	1			2	5	2	2				
494484	1	6	1	6			2	1	2	2				
494490	1	8	1	6			3	1	2	2	8			
494494	1	11	1	6			3	1	2	2	4			
494498	1	18	1	6			3	1	2	2	4			
494499	1	20	1	5			1	1	2	1	4			
494601	1	13	2	7			3	1	2	1				
494602	1	14	2	7			3	1	1	1	3	6	135	70
494603	1	13	2	7			3	1	1	1	3			
494604	1	6	2	7			3	1	1	1	8			
494605	1	14	2	7			3	1	1	1	3	6	300	132
494610	1		2	7			3	1	2	2	8			
494621	1	5	2	7			3	1	2	1	1			
494622	1	5	2	7			3	1	2	1	3	5	550	520
494636	1	5	2	7			3	1	1	1	1	6		
494639	1		2	7			3	1	1	1	8			
494640	1	10	2	7			3	1	2	1	8			
494643	1	10	2	7			3	1	2	1	1	6		
494645	1	7	2	7			3	1	2	1	1	6		
494651	1	18	1	6			3	1	2	1	1			
494656	1	18	1	6			1	1	3	2	2			
494658	3	2	1	6			1	2	3	1	4	4		
494659	1	5	1	6			3	1	3	1	4	4		
494661	1	10	1	6			3	1	2	1	4	6		
494666	1	11	1	6			3	1	3	1	4		999	
494674	1	10	1	6			3	1	2	1	3	6		
494676	3	6	1	6			1	5	2	1	8			
494678	1	9	1	6			1	1	3	1	3	6		

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	U	AG	AL	B	DA	DE	CA	CE	CU	CR	CU	FL	K	LI	MG
494436		<2	<10	45	26	<1	145.5	<30	8	<4	<2	55	0.8	9	35.8
494440		<2	32	90	39	<1	182.6	<30	<2	<4	6	52	1.0	42	63.6
494443		<2	132	45	32	<1	143.7	<30	<2	<4	8	114	1.2	9	40.7
494444		<2	83	43	27	<1	151.2	<30	<2	<4	4	30	0.8	9	36.7
494445		<2	255	35	38	<1	109.4	<30	<2	<4	9	160	0.9	8	32.3
494447		4	20	32	38	<1	120.7	<30	<2	<4	<2	154	0.7	7	31.4
494449		<2	39	47	25	<1	150.4	30	<2	<4	7	50	0.9	9	37.6
494451		2	234	12	29	<1	78.4	69	3	4	9	163	0.6	2	12.5
494454		5	23	13	31	<1	80.4	63	<2	<4	<2	23	0.4	<2	12.0
494455		<2	<10	12	37	<1	109.8	<30	<2	<4	2	<10	0.4	<2	12.8
494457		<2	<10	13	22	<1	84.4	<30	<2	<4	<2	13	0.5	<2	8.7
494458		<2	13	14	31	<1	103.9	<30	<2	<4	6	13	0.4	<2	11.3
494459		<2	14	13	28	<1	78.2	<30	<2	<4	5	<10	0.4	<2	11.5
494460		5	24	14	36	<1	114.7	119	<2	6	2	<10	0.3	<2	11.2
494461		<2	23	10	23	<1	124.9	<30	<2	<4	<2	<10	0.2	<2	7.9
494462		<2	23	6	15	<1	66.0	<30	<2	<4	<2	21	0.4	<2	8.1
494463		<2	<10	13	33	<1	103.0	<30	<2	<4	<2	23	0.5	<2	8.6
494464		<2	42	12	27	<1	107.0	<30	<2	<4	3	17	0.4	<2	12.6
494465		<2	130	10	22	<1	123.5	<30	<2	<4	12	17	0.5	<2	11.6
494467		<2	44	15	46	<1	106.6	<30	<2	<4	3	10	0.4	2	19.1
494469		3	47	11	21	<1	114.2	<30	<2	<4	2	<10	0.4	<2	9.3
494470		3	22	11	40	<1	100.2	<30	5	<4	2	<10	0.3	2	13.2
494471		<2	27	11	24	<1	82.3	60	9	4	7	19	0.5	<2	10.7
494474		<2	<10	12	29	<1	131.0	<30	8	<4	3	<10	0.5	<2	11.9
494475		4	27	13	28	<1	144.9	<30	3	4	2	17	0.2	2	12.4
494476		4	14	13	27	<1	141.0	<30	6	<4	<2	14	0.3	<2	10.8
494477		<2	37	12	27	<1	88.4	<30	<2	<4	3	14	0.4	<2	10.5
494482		<2	24	14	31	<1	144.0	<30	<2	<4	2	13	0.3	<2	15.9
494484		4	27	16	30	<1	92.5	<30	2	<4	2	21	0.4	2	20.7
494490		<2	56	36	75	<1	41.9	48	8	6	38	13	3.7	8	9.4
494494		<2	39	27	53	<1	126.0	36	<2	4	155	3201	0.5	9	23.8
494498		<2	49	24	50	<1	122.0	<30	<2	<4	26	2191	0.9	5	23.4
494499		<2	28	77	40	<1	138.1	<30	<2	<4	2	27	1.7	21	53.2
494601		<2	22	130	19	<1	118.6	<30	<2	<4	12	80	2.7	50	91.0
494602		<2	11	73	18	<1	187.6	<30	<2	<4	19	33	2.8	25	65.9
494603		<2	29	205	22	<1	330.4	<30	<2	<4	87	62	5.2	56	203.8
494604		<2	18	43	16	<1	113.3	<30	<2	<4	2	10	2.6	19	51.3
494605		2	95	161	23	<1	282.9	<30	<2	<4	10	187	4.8	30	125.4
494610		<2	40	101	26	<1	200.7	<30	<2	<4	2	39	1.7	16	73.3
494621		3	28	165	45	<1	56.6	<30	3	4	8	50	6.0	13	23.9
494622		7	<10	74	24	<1	191.5	40	12	6	2	160	1.2	17	53.5
494636		5	37	249	10	<1	416.3	<30	<2	4	4	30	2.7	85	162.3
494639		2	31	221	13	<1	431.4	<30	<2	<4	4	3023	3.6	95	146.0
494640		<2	150	749	28	<1	912.8	<30	<2	<4	15	110	7.5	136	279.0
494643		4	24	306	12	<1	427.5	<30	<2	<4	5	290	2.7	57	124.4
494645		3	53	512	36	<1	108.3	<30	3	<4	3	90	1.6	55	46.7
494651		3	15	58	21	<1	187.6	<30	<2	<4	2	10	0.9	11	47.3
494656		<2	22	23	25	<1	22.3	<30	<2	<4	4	10	0.6	5	31.8
494658		<2	<10	141	12	<1	419.7	<30	<2	<4	<2	13	1.6	40	139.0
494659		7	<10	22	56	<1	54.4	36	6	10	<2	60	0.8	11	23.1
494661		<2	17	88	27	<1	265.0	45	5	4	3	93	1.2	22	62.1
494666		<2	19	32	36	<1	30.5	<30	<2	<4	<2	10	1.1	5	30.9
494674		4	22	58	23	<1	135.6	<30	<2	5	5	17	1.7	13	43.6
494676		<2	26	193	25	<1	282.7	<30	3	4	3	23	4.1	31	131.0
494678		<2	42	91	18	<1	177.7	<30	6	<4	22	45	1.5	20	58.7

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	MN	MO	NA	NI	P	SC	SI	SR	TI	V	Y	ZV	ZR
494436	79	<4	12.6	5	<40	<1	5.5	1802	<2	<4	1	1945	<2
494440	25	<4	103.6	<4	<40	<1	9.7	1389	2	6	<1	320	<2
494443	15	<4	22.1	22	<40	<1	5.7	1700	2	5	<1	359	<2
494444	22	<4	16.1	<4	<40	<1	5.9	1661	<2	<4	<1	325	<2
494445	9	<4	13.6	<4	72	<1	7.0	1147	2	<4	<1	349	<2
494447	32	5	12.3	8	<40	<1	5.4	1030	<2	<4	1	374	<2
494449	14	9	14.8	<4	<40	<1	6.4	1863	3	<4	<1	30	<2
494451	7	<4	6.2	16	55	<1	4.1	317	4	<4	2	45	13
494454	<2	10	5.3	7	<40	<1	3.4	317	2	7	2	5	17
494455	<2	<4	5.0	<4	<40	<1	3.9	311	<2	<4	<1	13	<2
494457	2	<4	2.9	5	<40	<1	2.6	199	<2	<4	<1	64	<2
494458	<2	<4	3.5	<4	<40	<1	3.5	252	<2	4	<1	5	<2
494459	<2	<4	4.8	<4	<40	<1	4.2	278	<2	<4	<1	64	<2
494460	<2	<4	5.2	<4	<40	<1	4.3	337	<2	<4	3	14	11
494461	<2	15	3.3	<4	<40	<1	3.5	240	<2	<4	<1	7	<2
494462	15	<4	3.4	5	<40	<1	1.5	189	<2	<4	<1	5	<2
494463	15	<4	4.3	<4	<40	<1	4.0	324	<2	<4	<1	5	<2
494464	<2	<4	3.4	<4	<40	<1	4.2	206	<2	<4	<1	24	<2
494465	<2	<4	2.5	7	<40	<1	3.5	207	<2	<4	<1	29	<2
494467	<2	<4	4.4	<4	<40	<1	4.6	244	<2	<4	<1	11	<2
494469	<2	<4	2.9	9	<40	<1	3.2	222	<2	<4	1	7	<2
494470	<2	<4	3.8	12	<40	<1	4.1	254	<2	14	2	14	20
494471	<2	<4	3.7	7	<40	<1	4.0	255	<2	13	1	11	10
494474	<2	<4	3.1	<4	<40	<1	4.2	272	<2	<4	1	21	2
494475	2	15	3.3	<4	<40	<1	4.5	284	<2	4	2	10	11
494476	2	<4	2.4	<4	<40	<1	3.7	278	2	12	1	6	<2
494477	18	10	2.5	<4	<40	<1	3.4	248	<2	11	<1	19	<2
494482	2	4	3.7	<4	<40	<1	4.7	251	<2	<4	<1	19	<2
494484	5	19	7.2	14	<40	<1	5.1	240	<2	6	1	15	<2
494490	4	<4	15.4	<4	<40	<1	1.0	196	<2	12	1	1845	12
494494	44	15	5.4	<4	<40	<1	4.5	924	<2	<4	<1	2494	<2
494498	42	<4	5.8	<4	<40	<1	4.4	887	<2	<4	<1	2249	<2
494499	15	5	11.5	<4	<40	<1	4.1	4185	<2	<4	<1	420	<2
494501	9	<4	71.6	10	<40	<1	9.3	4457	<2	<4	<1	83	7
494502	6	<4	71.1	7	<40	<1	12.1	1939	<2	<4	<1	495	5
494503	17	<4	278.0	<4	<40	1	15.2	7189	5	<4	<1	59	3
494504	4	<4	55.1	<4	<40	<1	14.6	1794	<2	<4	<1	97	<2
494505	15	<4	145.2	16	<40	1	10.7	4714	5	6	<1	363	5
494510	5	<4	16.4	14	<40	<1	7.7	5182	<2	<4	<1	19	3
494521	18	12	36.2	13	<40	<1	6.5	975	<2	17	<1	192	2
494522	13	11	11.5	<4	<40	<1	6.1	4078	<2	8	1	105	8
494536	36	16	41.1	23	<40	<1	10.6	12166	5	<4	1	39	8
494537	41	4	59.8	4	<40	1	13.3	11841	6	<4	<1	1021	<2
494540	25	5	95.8	6	56	2	9.6	23625	16	<4	1	239	5
494543	21	15	44.3	14	<40	1	8.2	10102	6	<4	1	104	5
494545	7	8	60.4	8	<40	<1	7.7	2672	<2	16	1	1065	3
494551	20	<4	12.3	7	<40	<1	5.1	2785	2	5	<1	910	8
494556	2	<4	5.6	15	<40	<1	2.0	60	<2	5	1	51	7
494558	240	19	21.5	13	<40	<1	10.0	9492	2	<4	1	33	4
494559	4	14	11.2	12	<40	<1	7.2	540	<2	26	2	172	20
494561	41	<4	15.0	4	<40	<1	8.5	6053	<2	15	3	17	8
494566	<2	<4	14.8	5	<40	<1	1.4	71	<2	<4	<1	59	<2
494574	12	<4	8.4	16	<40	<1	5.7	2270	<2	7	1	772	<2
494576	8	<4	26.7	4	<40	<1	10.5	6951	3	<4	2	5	4
494578	6	<4	14.0	13	<40	<1	7.3	3641	2	9	<1	105	<2

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	COND	MEAS	PH	CT-F
494691	W	35	32.292	105.084	2	08	04/27/78	17	27.0	26.9	C		7.5	1100
494697	W	35	32.253	105.004	2	08	04/27/78	18	25.0	23.8	C		7.2	1500
494700	W	35	32.223	105.000	2	08	04/27/78	19	21.0	18.9			7.2	1600
494703	W	35	32.066	105.202	2	08	04/28/78	13	30.0	21.0			7.8	1900
494712	W	35	32.151	105.220	2	08	04/28/78	15	30.0	21.8			7.3	1000
494724	W	35	32.228	105.076	2	08	04/28/78	15	30.0	23.0	C		6.7	900
494725	W	35	32.242	105.051	2	08	04/28/78	15	30.0	21.0	C		7.3	2000
494726	W	35	32.212	105.041	2	08	04/28/78	15	30.0	22.0	C		6.8	1325
494727	W	35	32.216	105.039	2	08	04/28/78	16	30.0	22.0	C		6.9	1450
494731	W	35	32.171	105.057	2	08	04/28/78	17	30.0	20.0			6.9	1500
494733	W	35	32.147	105.054	2	08	04/28/78	17	30.0	20.0			6.9	1150
494736	W	35	32.146	105.119	2	08	04/28/78	18	28.0	19.0			6.8	1600
494743	W	35	32.215	105.237	2	08	04/28/78	18	28.0	21.5			8.2	1350
494754	W	35	32.564	105.209	2	08	04/26/78	12	28.0	19.0	C		7.6	360
494759	W	35	32.510	105.281	2	08	04/26/78	13	30.0	20.4	C		7.7	1050
494762	W	35	32.478	105.348	2	08	04/26/78	15	29.0	21.2	C		8.4	420
494763	W	35	32.408	105.347	2	08	04/26/78	16	29.0	17.4			7.4	500
494770	W	35	32.392	105.367	2	08	04/26/78	17	28.0	16.4	C		7.6	800
494777	W	35	32.014	105.081	2	08	04/27/78	13	30.0	22.6	C		7.1	4550
494778	W	35	32.017	105.116	2	08	04/27/78	13	30.0	21.2	C		7.2	2500
494779	W	35	32.033	105.102	2	08	04/27/78	13	30.0	22.0	C		7.3	1500
494783	W	35	32.112	105.101	2	08	04/27/78	14	30.0	20.2	C		7.1	1500
494784	W	35	32.104	105.051	2	08	04/27/78	14	30.0	21.3	C		7.1	1600
494793	W	35	32.052	105.050	2	08	04/27/78	16	29.0	23.1	C		7.6	2100
494796	W	35	32.026	105.133	2	08	04/27/78	17	28.0	20.1	C		7.6	1550
494797	W	35	32.019	105.132	2	08	04/27/78	17	28.0	18.4			7.2	3050
494798	W	35	32.017	105.141	2	08	04/27/78	17	28.0	19.8	C		7.1	3100

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	ACOL	STYP	SCOL	FLOW	WCOL	FEEL	SKY	TWEL	DIAM (INCHES)	W-DP (FLLT)	WATD (FEET)
494691	1	1	1	6			1	1	2	1	3	8		
494697	1	3	1	6			3	1	2	1	3		450	
494700	1	10	1	6			3	1	4	1	3			
494703	1	4	2	7			3	2	1	1	1	8		
494712	1	5	2	7			3	1	2	1	1	8		
494724	1	6	1	6			1	1	1	1	3			
494725	3	8	1	6			1	2	1	1	3			
494726	1	8	1	6			2	1	1	1	6			
494727	3	10	1	6			1	1	1	1	8			
494731	1	3	1	6			2	1	2	1	1			
494733	1	6	1	6			2	1	1	1	4		100	
494736	1	12	1	6			2	1	2	1	1			
494743	1	10	2	7			3	1	2	1	1	6		
494754	1	11	1	7			3	1	2	2	1			
494759	1	8	1	7			1	1	2	2	4			
494762	1	9	1	6			3	1	2	2	8			
494763	1	16	1	6			3	1	2	2	4			
494770	1	6	1	6			3	1	2	2	4			
494777	1	2	1	6			1	1	2	1	8			
494778	1	4	1	6			4	1	2	1	8			
494779	1	6	1	6			4	1	2	1	8			
494783	1	9	1	6			3	1	2	1	8		125	
494784	1	8	1	6			3	1	2	1	8			
494793	1	8	1	6			3	6	2	1	8			
494796	1	16	1	6			3	1	2	2	8			
494797	1	4	1	6			3	1	2	2	8			
494798	1	6	1	6			4	1	2	2	8			

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	U	AG	AL	D	RA	UC	CA	CE	CD	CH	CU	FL	K	LI	MG
494691		<2	70	230	16	<1	161.1	67	5	4	20	34	2.4	24	71.3
494697		<2	23	113	16	<1	245.4	33	<2	5	5	100	1.7	29	77.1
494700		<2	40	178	22	<1	385.1	<30	4	<4	15	143	3.0	45	125.8
494703		<2	50	203	36	<1	267.4	<30	4	<4	3	229	5.7	47	125.2
494712	4	62	72	20	<1	177.0	39	3	6	<2	522	1.4	16	47.1	
494724	<2	16	80	14	<1	132.6	<30	<2	<4	3	<10	1.9	21	57.6	
494725	<2	32	89	58	<1	247.4	<30	<2	<4	6	30	2.6	25	120.7	
494726	<2	52	62	12	<1	221.1	<30	<2	<4	4	27	1.6	17	68.0	
494727	2	56	115	13	<1	225.4	<30	3	<4	16	30	2.8	34	89.3	
494731	<2	17	109	13	<1	215.5	<30	<2	<4	8	73	1.5	17	89.8	
494733	<2	<10	83	10	<1	189.2	<30	2	<4	3	2250	1.6	18	71.2	
494736	<2	27	113	11	<1	287.7	<30	3	<4	4	201	1.7	24	99.4	
494743	<2	114	198	20	<1	236.9	<30	<2	<4	2	59	4.6	87	112.9	
494754	<2	41	30	160	<1	47.3	<30	<2	<4	3	27	1.6	6	18.5	
494759	<2	72	87	25	<1	168.1	<30	<2	<4	8	49	1.4	24	55.2	
494762	<2	10	75	25	<1	24.4	<30	10	<4	17	20	1.6	13	31.3	
494763	<2	15	56	51	<1	65.7	<30	<2	<4	<2	50	1.5	10	26.1	
494770	<2	22	34	26	<1	152.6	<30	<2	<4	<2	89	0.9	8	31.7	
494777	<2	59	191	15	<1	316.9	<30	3	<4	31	53	18.5	119	148.9	
494778	<2	49	306	17	<1	334.1	<30	<2	<4	5	52	2.2	32	125.7	
494779	6	40	123	17	<1	228.5	57	<2	8	2	32	1.7	22	72.5	
494783	4	24	112	12	<1	235.8	40	2	6	2	36	1.7	24	85.2	
494784	<2	32	104	15	<1	205.4	33	3	5	6	29	2.6	31	110.4	
494793	<2	25	82	19	<1	284.0	<30	<2	<4	12	1461	2.2	28	104.2	
494796	<2	32	238	17	<1	226.4	<30	<2	<4	43	14	2.6	40	90.1	
494797	<2	40	301	19	<1	399.3	<30	<2	<4	10	57	3.1	43	159.4	
494798	5	20	628	16	<1	390.7	52	4	<4	2	26	3.0	71	160.2	

Table 5, Continued

DATA LISTING FOR WATERS OF THE CARLSBAD QUADRANGLE

SAMPLE	MN	MO	NA	NI	P	SC	SI	SH	TI	V	Y	Zn	Zn
494691	9	5	16.8	32	<40	1	11.7	3729	5	21	2	270	11
494697	15	15	17.0	8	<40	1	7.1	4446	4	<4	1	673	<2
494700	23	14	32.5	<4	<40	<1	11.6	7098	3	0	<1	1073	<2
494703	132	14	34.9	2	658	<1	13.3	8249	4	<4	<1	32	3
494712	31	7	9.3	<4	<40	<1	6.7	3666	4	<4	2	92	14
494724	3	6	18.8	7	<40	<1	10.6	3008	<2	13	<1	103	<2
494725	5	<4	36.6	<4	<40	<1	1.0	5485	<2	<4	<1	13	<2
494726	7	<4	23.7	<4	<40	<1	5.8	3621	<2	<4	<1	237	<2
494727	91	<4	22.9	15	<40	<1	3.4	4869	<2	<4	<1	42	3
494731	12	5	51.8	<4	<40	<1	7.6	4197	3	<4	1	603	6
494733	70	<4	17.5	<4	<40	<1	8.0	3603	<2	<4	1	32	<2
494736	8	7	25.7	<4	<40	<1	6.9	5739	2	0	<1	37	<2
494743	14	4	36.3	<4	89	<1	21.2	11254	<2	10	<1	61	9
494754	15	11	6.0	<4	<40	<1	7.1	420	2	6	<1	200	<2
494759	13	5	15.0	<4	<40	<1	7.5	2800	2	<4	<1	89	<2
494762	2	<4	13.7	<4	<40	<1	0.5	528	<2	5	<1	90	<2
494763	3	<4	10.5	6	<40	<1	5.9	648	<2	5	<1	363	<2
494770	15	<4	6.5	6	<40	<1	5.4	1669	<2	<4	<1	743	<2
494777	19	5	561.0	9	<40	1	12.2	8357	6	7	<1	73	<2
494778	6	<4	125.6	<4	<40	<1	6.9	7139	5	8	<1	57	5
494779	3	<4	27.6	14	<40	<1	7.1	4609	4	12	3	27	12
494783	3	<4	52.3	22	<40	<1	7.3	5128	2	11	2	41	<2
494784	5	<4	48.9	8	<40	<1	9.6	5134	3	13	1	97	3
494793	89	<4	20.7	26	<40	<1	4.8	6233	2	<4	<1	63	<2
494796	7	<4	51.4	65	<40	<1	6.3	5531	2	17	<1	22	3
494797	8	<4	156.1	49	<40	<1	7.1	8826	5	5	<1	33	<2
494798	5	3	149.3	9	<40	<1	6.5	9059	3	23	1	31	8

Table 6

STATISTICAL SUMMARY FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

NO. SAMPLES ANALYZED		MEASURABLE DETECTION		DETECTION LIMIT	MINIMUM VALUE	MAXIMUM VALUE	MEAN	MEDIAN	MODE	STANDARD DEVIATION	COEFFICIENT OF VARIATION	LN TRANSFORMATION			
ELEMENT	VALUES	BELOW LIMIT	DETECTION LIMIT									MEAN	S. D.	ROBUST MEAN	S. D.
U	1251				0.20	7.90	2.36	2.30	2.32	0.468	0.198	0.84	0.21	0.85	0.16
AG	9	1671	<2	<2	4	4	2	<2	<2	0.7	0.3	0.77	0.23		
AL	1679	1	<0.05	<0.05	8.64	4.36	4.38	4.97	1.003	0.230	1.44	0.28	1.46	0.23	
B	1591	89	<10	<10	81	20	19	15	7.4	0.4	2.96	0.33	2.92	0.36	
BA	1680				48	9362	460	460	458	235.7	0.5	6.10	0.27	6.11	0.20
BE	1635	45	<1	<1	3	1	<1	<1	0.3	0.3	0.07	0.21			
CA	1680				0.17	29.57	4.75	3.93	3.21	3.601	0.758	1.28	0.81	1.30	0.83
CE	1665	15	<10	<10	90	40	41	35	10.7	0.3	3.67	0.29	3.68	0.30	
CO	1359	321	<4	<4	15	5	5	6	1.4	0.3	1.69	0.24	1.61	0.29	
CR	1679	1	<1	<1	64	25	25	19	8.0	0.3	3.20	0.33	3.21	0.30	
CU	1679	1	<2	<2	49	13	13	13	4.5	0.3	2.53	0.34	2.53	0.33	
FE	1679	1	<0.05	<0.05	4.61	1.70	1.68	1.67	0.476	0.281	0.48	0.32	0.50	0.28	
HF	164	1516	<15	<15	85	24	<15	<15	10.6	0.4	3.11	0.36			
K	1679	1	<0.02	<0.02	2.44	1.45	1.48	1.50	0.303	0.208	0.35	0.27	0.37	0.22	
LA	1672	8	<2	<2	44	19	19	17	5.3	0.3	2.91	0.33	2.94	0.28	
LI	1680				3	63	23	23	20	6.8	0.3	3.13	0.29	3.14	0.27
MG	1679	1	<0.05	<0.05	7.67	0.89	0.76	0.52	0.541	0.610	-0.27	0.54	-0.27	0.52	
MN	1680				19	799	316	307	246	104.7	0.3	5.70	0.38	5.71	0.33
MO	20	1660	<4	<4	7	4	<4	<4	0.8	0.2	1.46	0.16			
NA	1678	2	<0.05	<0.05	1.75	0.66	0.66	0.67	0.179	0.270	-0.46	0.31	-0.44	0.28	
NB	1674	6	<4	<4	81	9	9	10	3.1	0.3	2.23	0.23	2.23	0.22	
NI	1676	4	<2	<2	38	12	12	11	4.4	0.4	2.45	0.37	2.46	0.36	
P	1680				37	2960	398	366	340	192.4	0.5	5.88	0.48	5.89	0.47
PB	1335	345	<10	<10	487	19	15	15	17.4	0.9	2.86	0.35	2.72	0.42	
SC	1677	3	<1	<1	11	4	4	3	1.2	0.3	1.34	0.33	1.36	0.31	
SR	1680				55	2213	225	180	126	188.4	0.8	5.26	0.50	5.23	0.46
TH	1523	157	<2	<2	29	6	6	5	2.9	0.4	1.78	0.48	1.73	0.50	
TI	1680				59	8671	2257	2236	2309	610.9	0.3	7.68	0.32	7.70	0.24
V	1679	1	<2	<2	133	42	42	41	11.5	0.3	3.71	0.30	3.72	0.27	
Y	1679	1	<1	<1	30	11	11	9	3.0	0.3	2.39	0.30	2.40	0.25	
ZN	1680				3	1423	48	45	43	39.0	0.8	3.80	0.39	3.80	0.35
ZR	1680				2	455	66	65	61	20.7	0.3	4.16	0.29	4.17	0.22

Table 7

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	CONN	MEAS	PH	CT-F
4501	M	35	32.478	105.740	2	15	07/23/77	9	25.0		C			
4502	M	35	32.477	105.736	2	15	07/23/77	9	26.0		C			
4503	M	35	32.476	105.729	2	15	07/23/77	9	26.0		C			
4504	M	35	32.475	105.720	2	15	07/23/77	10	26.0		C			
4505	M	35	32.474	105.714	2	15	07/23/77	10	27.0		C			
4506	M	35	32.472	105.705	2	15	07/23/77	10	27.0		C			
4507	M	35	32.471	105.695	2	15	07/23/77	10	27.0		C			
4508	M	35	32.469	105.688	2	15	07/23/77	10	27.0		C			
4509	M	35	32.467	105.676	2	15	07/23/77	10	27.0		C			
4510	M	35	32.466	105.650	2	15	07/23/77	10	26.0		C			
4511	M	35	32.466	105.644	2	15	07/23/77	10	26.0		C			
4512	M	35	32.466	105.637	2	15	07/23/77	11	27.0		C			
4513	M	35	32.469	105.631	2	15	07/23/77	11	27.0		C			
4514	M	35	32.456	105.661	2	15	07/23/77	11	28.0		C			
4515	M	35	32.439	105.648	2	15	07/23/77	11	27.0		C			
4516	M	35	32.424	105.639	2	15	07/23/77	11	28.0		C			
4517	H	35	32.395	105.658	2	96	07/23/77	11	28.0		C			
4518	M	35	32.385	105.683	2	15	07/23/77	11	29.0		C			
4519	M	35	32.384	105.702	2	15	07/23/77	11	27.0		C			
4520	M	35	32.395	105.745	2	15	07/23/77	11	28.0		C			
4521	H	35	32.347	105.709	2	96	07/23/77	11	29.0		C			
4522	M	35	32.368	105.740	2	15	07/23/77	12	30.0		C			
4523	H	35	32.341	105.683	2	96	07/23/77	12	30.0		C			
4524	M	35	32.347	105.654	2	15	07/23/77	12	30.0		C			
4525	M	35	32.364	105.652	2	15	07/23/77	12	30.0		C			
4526	M	35	32.318	105.672	2	15	07/23/77	12	30.0		C			
4527	M	35	32.308	105.687	2	15	07/23/77	12	30.0		C			
4528	M	35	32.316	105.705	2	15	07/23/77	13	30.0		C			
4529	M	35	32.296	105.697	2	15	07/23/77	13	30.0		C			
4530	M	35	32.301	105.733	2	15	07/23/77	13	30.0		C			
4531	M	35	32.303	105.741	2	15	07/23/77	13	30.0		C			
4532	M	35	32.291	105.702	2	15	07/23/77	13	30.0		C			
4533	M	35	32.275	105.732	2	15	07/23/77	13	30.0		C			
4534	M	35	32.266	105.742	2	15	07/23/77	14	30.0		C			
4535	M	35	32.265	105.744	2	15	07/23/77	14	30.0		C			
4536	M	35	32.299	105.676	2	97	07/23/77	14	30.0		C			
4537	M	35	32.280	105.662	2	15	07/23/77	15	32.0		C			
4538	M	35	32.275	105.653	2	15	07/23/77	15	31.0		C			
4539	M	35	32.260	105.641	2	15	07/23/77	15	31.0		C			
4540	M	35	32.254	105.642	2	15	07/23/77	15	31.0		C			
4541	M	35	32.269	105.590	2	15	07/23/77	15	32.0		C			
4542	H	35	32.299	105.616	2	96	07/23/77	15	32.0		C			
4543	M	35	32.335	105.605	2	15	07/23/77	16	30.0		C			
4544	M	35	32.326	105.597	2	15	07/23/77	16	32.0		C			
4545	M	35	32.321	105.597	2	15	07/23/77	16	33.0		C			
4546	M	35	32.306	105.576	2	96	07/27/77	16	33.0		C			
4547	M	35	32.345	105.576	2	15	07/23/77	16	32.0		C			
4548	M	35	32.363	105.563	2	15	07/23/77	16	32.0		C			
4549	M	35	32.357	105.551	2	15	07/23/77	17	31.0		C			
4550	M	35	32.342	105.544	2	15	07/23/77	17	30.0		C			
4551	M	35	32.331	105.528	2	15	07/23/77	17	30.0		C			
4552	M	35	32.322	105.514	2	15	07/23/77	17	30.0		C			
4553	M	35	32.314	105.507	2	15	07/23/77	17	30.0		C			
4554	M	35	32.333	105.505	2	15	07/23/77	18	30.0		C			
4555	M	35	32.301	105.522	2	15	07/23/77	18	32.0		C			

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
4501	1	6	1	7	2	7			2	2	2.20	<2	3.28	17
4502	1	6	1	6	4	6			1	2	2.30	<2	4.72	19
4503	1	12	1	6	4	6			1	2	2.10	<2	4.58	17
4504	1	11	1	6	4	6			1	2	2.30	<2	4.81	20
4505	1	14	1	6	4	6			1	2	2.30	<2	3.85	14
4506	1	14	1	7	3	6			2	2	2.00	<2	3.36	11
4507	1	14	1	6	4	6			2	2	2.50	<2	5.16	19
4508	1	11	1	6	4	6			2	2	2.40	<2	5.25	20
4509	1	7	1	7	3	6			2	2	2.60	<2	2.75	<10
4510	1	12	1	6	4	6			2	2	1.90	<2	4.84	11
4511	1	12	1	6	4	6			2	2	2.20	<2	4.58	14
4512	1	12	1	6	4	6			2	2	2.20	<2	4.44	19
4513	1	12	1	6	4	6			2	2	2.50	<2	4.69	17
4514	1	12	1	6	4	6			2	2	2.50	<2	4.13	13
4515	1	9	1	6	4	6			2	2	2.10	<2	3.37	11
4516	1	8	1	6	4	6			1	2	2.30	<2	4.69	17
4517	1	14	1	6	4	6			1	2	2.50	<2	5.67	30
4518	1	9	1	6	4	6			1	2	2.10	<2	4.44	17
4519	1	12	1	6	4	6			1	2	1.90	<2	4.17	12
4520	1	11	1	6	4	6			2	2	2.00	<2	3.63	11
4521	1	9	1	6	4	6			1	2	2.30	<2	4.83	13
4522	1	5	1	6	4	6			1	2	2.00	<2	3.89	13
4523	1	10	1	6	4	6			1	2	2.10	<2	4.53	16
4524	1	3	1	6	4	6			2	2	2.20	<2	3.70	12
4525	1	5	1	6	4	6			2	2	2.10	<2	3.99	10
4526	1	11	1	6	4	6			2	2	2.30	<2	4.03	12
4527	1	11	1	6	4	6			2	2	2.60	<2	4.75	14
4528	1	8	1	6	4	6			2	2	2.30	<2	4.08	12
4529	1	10	1	6	4	6			2	2	2.50	<2	3.80	13
4530	1	12	1	6	4	6			2	2	2.00	<2	4.53	12
4531	1	10	1	6	4	6			2	2	2.40	<2	4.86	15
4532	1	6	1	6	4	6			2	2	2.40	<2	4.57	13
4533	1	10	1	6	4	6			2	2	2.60	<2	4.67	11
4534	1	10	1	6	4	6			2	2	2.80	<2	4.78	13
4535	1	9	1	6	4	6			2	2	2.30	<2	4.74	13
4536	1	15	1	6	4	6			2	4	1.90	<2	4.63	13
4537	1	12	1	6	4	6			2	2	2.30	<2	4.96	16
4538	1	10	1	6	4	6			2	2	2.00	<2	3.89	12
4539	1	14	1	6	4	6			2	2	2.20	<2	5.36	17
4540	1	11	1	6	4	6			2	2	2.40	<2	4.58	12
4541	1	13	1	6	4	6			2	2	2.70	<2	4.81	12
4542	1	6	1	6	4	6			2	2	2.70	<2	4.62	14
4543	1	12	1	6	4	6			2	4	2.20	<2	2.95	<10
4544	1	13	1	6	4	6			2	4	2.30	<2	4.42	12
4545	1	14	1	6	4	6			2	4	3.10	<2	4.22	<10
4546	1	15	1	6	4	6			2	4	2.90	<2	4.58	10
4547	1	8	1	6	4	6			2	2	2.30	<2	4.72	17
4548	1	12	1	6	4	6			2	4	2.30	<2	4.07	13
4549	1	10	1	6	4	6			2	4	2.60	<2	3.54	12
4550	1	13	1	6	4	6			2	4	2.00	<2	3.62	11
4551	1	7	1	6	4	6			2	4	1.80	<2	3.77	11
4552	1	5	1	6	4	6			2	4	2.20	<2	3.36	11
4553	1	6	1	6	4	6			2	4	2.00	<2	4.27	13
4554	1	7	1	6	4	6			2	4	2.10	<2	3.08	<10
4555	1	8	1	6	4	6			2	4	2.70	<2	4.34	14

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
4501	414	1	6.66	39	4	18	9	1.19	<15	1.11	16	16	0.65	197	<4
4502	471	1	4.30	46	6	24	15	1.85	<15	1.40	21	21	0.57	302	<4
4503	469	1	5.27	35	5	20	13	1.67	<15	1.47	17	22	0.54	264	<4
4504	487	1	3.69	46	6	24	14	1.89	<15	1.41	20	20	0.61	340	<4
4505	468	1	4.95	37	4	19	11	1.38	15	1.26	17	18	0.55	228	<4
4506	449	1	5.01	35	5	17	9	1.23	35	1.16	16	14	0.34	222	<4
4507	515	1	2.99	51	7	29	16	2.04	<15	1.48	24	21	0.61	401	<4
4508	498	1	3.87	55	7	29	18	2.20	<15	1.38	26	23	0.55	328	<4
4509	366	1	4.67	39	4	19	7	1.45	<15	1.02	18	12	0.33	232	<4
4510	567	1	1.42	35	5	20	11	1.48	<15	1.66	18	17	0.39	273	<4
4511	503	1	3.61	38	5	22	13	1.69	<15	1.48	17	19	0.45	272	<4
4512	500	1	5.30	34	5	23	14	1.68	<15	1.32	18	19	0.54	287	<4
4513	459	1	7.22	38	5	27	17	1.94	<15	1.30	17	20	0.61	313	<4
4514	477	1	2.08	38	4	21	11	1.63	<15	1.38	18	16	0.39	250	<4
4515	443	1	5.56	33	4	17	9	1.35	<15	1.12	14	14	0.34	210	<4
4516	495	1	2.03	41	5	22	13	1.78	<15	1.52	20	19	0.50	309	<4
4517	392	2	9.84	54	9	41	21	2.61	<15	1.16	24	28	1.06	637	<4
4518	531	1	1.69	40	4	20	12	1.56	<15	1.49	20	17	0.44	294	<4
4519	540	1	1.78	37	4	17	9	1.44	<15	1.45	18	16	0.34	226	<4
4520	508	1	2.03	35	4	16	8	1.42	<15	1.40	16	14	0.25	204	<4
4521	518	1	2.58	40	5	21	14	1.75	<15	1.64	20	20	0.49	298	<4
4522	523	1	1.51	32	4	17	9	1.53	<15	1.48	17	15	0.33	234	<4
4523	546	1	1.14	40	5	19	12	1.57	<15	1.43	20	17	0.41	276	<4
4524	495	1	1.74	32	4	17	9	1.40	<15	1.30	17	14	0.34	223	<4
4525	523	1	2.02	36	4	18	9	1.50	19	1.42	19	16	0.37	237	<4
4526	540	1	1.69	40	4	17	9	1.39	<15	1.46	19	16	0.30	209	<4
4527	544	1	0.76	44	7	22	11	1.80	<15	1.55	22	19	0.41	311	<4
4528	521	1	1.65	36	5	18	11	1.52	<15	1.44	18	16	0.35	239	<4
4529	494	1	4.46	45	4	20	11	1.67	<15	1.28	21	15	0.35	228	<4
4530	569	1	1.30	41	5	18	11	1.43	17	1.52	19	16	0.37	221	<4
4531	537	1	1.38	52	6	23	15	1.98	<15	1.53	23	19	0.49	345	<4
4532	562	1	2.34	45	5	21	12	1.87	42	1.44	21	17	0.45	294	<4
4533	550	1	0.83	45	5	22	12	1.91	<15	1.52	22	18	0.41	309	<4
4534	587	1	1.44	42	4	22	10	1.73	<15	1.58	21	17	0.41	284	<4
4535	594	1	1.12	36	<4	19	10	1.56	<15	1.75	19	17	0.36	258	<4
4536	554	1	1.60	31	4	16	10	1.38	<15	1.67	16	18	0.37	204	<4
4537	552	1	0.81	45	6	22	13	1.82	<15	1.66	21	18	0.48	342	<4
4538	543	1	2.57	37	4	15	10	1.24	<15	1.36	18	15	0.34	205	<4
4539	547	1	1.26	44	6	23	17	1.98	<15	1.60	22	22	0.58	407	<4
4540	560	1	2.26	39	4	20	13	1.66	20	1.55	18	19	0.42	273	<4
4541	582	1	1.13	52	5	22	12	1.86	38	1.59	25	18	0.41	300	<4
4542	510	1	2.12	51	5	24	15	2.12	18	1.44	24	20	0.44	317	<4
4543	479	1	2.37	17	<4	9	5	0.63	<15	1.20	11	11	0.24	99	<4
4544	538	1	1.59	37	5	19	11	1.59	<15	1.49	20	17	0.42	275	<4
4545	570	1	1.28	50	6	17	10	2.23	<15	1.46	25	16	0.34	312	<4
4546	562	1	1.50	41	4	21	11	1.75	<15	1.53	20	18	0.45	288	<4
4547	507	1	4.41	40	6	23	15	1.74	<15	1.43	20	21	0.57	289	<4
4548	522	1	3.25	43	4	19	10	1.50	24	1.33	20	16	0.40	245	<4
4549	485	1	7.20	34	4	20	10	1.44	17	1.08	15	18	0.44	212	<4
4550	480	1	2.97	31	4	15	8	1.13	<15	1.35	14	15	0.33	181	<4
4551	504	1	2.64	35	<4	15	9	1.12	<15	1.42	18	15	0.37	183	<4
4552	464	1	2.59	30	<4	14	7	1.13	<15	1.26	15	13	0.34	199	<4
4553	548	1	1.81	36	<4	16	10	1.27	<15	1.45	17	17	0.40	215	<4
4554	466	1	1.99	37	<4	17	7	1.39	<15	1.17	19	12	0.27	235	<4
4555	538	1	2.77	42	5	21	13	1.76	22	1.38	20	17	0.48	290	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
4501	0.59	10	9	207	16	3	193	5	1733	32	9	30	49
4502	0.62	10	15	361	16	4	158	5	2195	41	11	47	56
4503	0.65	8	11	379	14	4	167	2	1929	37	10	43	51
4504	0.64	11	12	425	22	4	167	8	2269	42	11	49	60
4505	0.72	9	9	268	15	3	189	6	1927	34	9	38	52
4506	0.62	9	8	255	22	3	165	8	1777	30	8	31	43
4507	0.69	11	13	495	27	5	214	5	2365	46	13	58	61
4508	0.59	12	15	425	24	5	168	11	2512	49	13	54	65
4509	0.56	10	7	143	15	2	142	6	2571	38	8	32	51
4510	0.96	7	8	306	22	3	176	9	1909	32	9	41	49
4511	0.76	9	6	360	15	4	194	<2	2143	38	10	44	56
4512	0.70	10	14	532	23	4	225	5	2134	39	11	49	56
4513	0.65	11	13	455	<10	4	251	<2	2334	43	11	53	58
4514	0.72	10	9	264	17	3	140	7	2249	36	9	41	52
4515	0.58	10	8	211	13	3	153	5	2069	34	8	31	49
4516	0.72	9	12	326	19	4	149	<2	2318	38	10	45	55
4517	0.25	12	20	869	23	6	359	4	2170	54	15	89	61
4518	0.78	10	9	428	15	4	152	3	2061	35	10	45	51
4519	0.78	8	6	221	14	3	141	6	1954	33	9	34	49
4520	0.74	9	5	155	14	3	128	5	2415	35	8	31	48
4521	0.78	9	11	478	20	4	148	<2	2200	37	11	44	53
4522	0.78	8	7	381	10	3	139	<2	2363	36	9	46	52
4523	0.75	8	9	287	20	4	146	7	1946	33	10	49	50
4524	0.69	9	6	201	12	3	141	7	2034	33	8	32	50
4525	0.78	8	9	222	15	3	151	5	2170	36	9	35	49
4526	0.79	9	6	186	20	3	139	3	2021	33	9	30	49
4527	0.86	9	7	237	14	4	147	6	2488	41	11	43	61
4528	0.77	9	8	230	20	3	137	<2	2155	35	9	36	50
4529	0.68	10	9	246	20	3	152	3	2571	40	10	37	56
4530	0.82	7	8	183	23	3	148	12	1818	31	9	46	49
4531	0.78	10	9	286	26	4	150	10	2611	43	12	50	64
4532	0.77	11	10	258	19	4	157	6	2558	41	10	43	58
4533	0.81	11	12	253	13	4	143	2	2549	42	11	47	59
4534	0.90	8	10	237	21	3	160	6	2654	42	10	45	64
4535	0.97	8	9	235	19	3	147	<2	2412	37	10	40	55
4536	0.84	7	10	279	13	3	136	<2	1747	30	9	39	46
4537	0.79	10	11	307	23	4	135	10	2392	41	11	50	62
4538	0.74	9	7	213	21	3	155	7	1883	31	8	33	48
4539	0.80	9	11	609	18	5	160	9	2166	41	13	60	62
4540	0.87	9	9	265	14	3	167	5	2376	38	10	42	54
4541	0.89	10	9	215	18	4	153	5	2698	42	11	44	64
4542	0.64	12	14	282	13	4	129	8	2805	48	12	47	65
4543	0.61	5	4	118	<10	2	144	4	973	15	5	16	26
4544	0.75	9	10	245	21	3	138	7	2076	36	10	38	50
4545	0.90	12	7	223	17	3	177	7	2757	59	11	37	38
4546	0.89	10	7	254	<10	4	162	2	2553	42	10	43	58
4547	0.70	10	10	476	14	4	210	9	2077	39	11	47	57
4548	0.76	11	6	262	10	3	177	10	2266	38	10	36	55
4549	0.62	11	7	249	11	3	243	7	2217	39	9	35	55
4550	0.71	7	9	219	<10	3	151	<2	1611	28	8	31	41
4551	0.77	8	5	196	<10	2	167	<2	1688	28	8	25	42
4552	0.66	8	5	221	<10	2	158	6	1781	27	8	28	41
4553	0.88	7	8	245	19	3	191	8	1812	30	8	35	46
4554	0.66	10	6	119	14	2	142	3	2724	37	10	28	60
4555	0.78	12	10	270	21	4	175	4	2611	42	11	43	61

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	COMM	MEAS	PH	CT-F
4556	M	35	32.296	105.533	2	15	07/23/77	18	32.0		C			
4557	M	35	32.297	105.545	2	15	07/23/77	18	32.0		C			
4558	M	35	32.275	105.532	2	15	07/23/77	18	32.0		C			
4559	M	35	32.368	105.581	2	15	07/23/77	18	32.0		C			
4560	M	35	32.374	105.594	2	15	07/23/77	18	30.0		C			
4561	M	35	32.376	105.594	2	15	07/23/77	18	32.0		C			
4562	M	35	32.392	105.611	2	15	07/23/77	18	32.0		C			
4563	M	35	32.377	105.577	2	15	07/23/77	18	31.0		C			
4564	M	35	32.331	105.545	2	15	07/23/77	18	31.0		C			
4565	M	35	32.398	105.537	2	15	07/23/77	19	30.0		C			
4566	M	35	32.422	105.522	2	15	07/23/77	18	31.0		C			
4567	M	35	32.418	105.524	2	15	07/23/77	19	30.0		C			
4568	M	35	32.422	105.522	2	15	07/29/77	19	30.0		C			
4569	M	35	32.415	105.512	2	15	07/23/77	19	30.0		C			
4570	M	35	32.413	105.502	2	15	07/23/77	19	29.0		C			
4571	M	35	32.430	105.526	2	15	07/23/77	19	29.0		C			
4572	M	35	32.433	105.529	2	15	07/23/77	18	30.0		C			
4573	M	35	32.439	105.537	2	15	07/23/77	20	30.0		C			
4574	M	35	32.442	105.540	2	15	07/23/77	20	29.0		C			
4575	M	35	32.454	105.552	2	15	07/23/77	20	30.0		C			
4576	M	35	32.457	105.556	2	15	07/23/77	20	29.0		C			
4577	M	35	32.494	105.576	2	15	07/23/77	20	30.0		C			
4578	M	35	32.487	105.594	2	15	07/23/77	21	28.0		C			
4579	M	35	32.480	105.604	2	15	07/23/77	21	27.0		C			
4580	M	35	32.474	105.612	2	15	07/23/77	21	29.0		C			
4785	M	35	32.744	105.966	2	15	07/28/77	16	39.0		C			
4786	M	35	32.744	105.982	2	15	07/28/77	16	39.0		C			
4787	M	35	32.729	105.991	2	15	07/27/77	16	39.0		C			
4788	M	35	32.718	105.989	2	15	07/28/77	16	39.0		C			
4789	M	35	32.718	105.971	2	15	07/29/77	16	38.0		C			
4790	M	35	32.728	105.979	2	15	07/29/77	16	40.0		C			
4791	M	35	32.710	105.957	2	15	07/28/77	16	39.0		C			
4792	M	35	32.692	105.956	2	15	07/28/77	16	39.0		C			
4793	M	35	32.690	105.939	2	15	07/28/77	17	39.0		C			
4794	M	35	32.690	105.924	2	15	07/28/77	17	39.0		C			
4795	M	35	32.706	105.941	2	15	07/28/77	17	38.0		C			
4796	M	35	32.702	105.993	2	15	07/28/77	18	37.0		C			
4797	M	35	32.687	105.996	2	15	07/28/77	18	36.0		C			
4798	M	35	32.671	105.998	2	15	07/28/77	18	36.0		C			
4799	M	35	32.747	105.995	2	15	07/28/77	18	35.0		C			
20093	M	35	32.221	104.315	2	15	10/31/76	9						
20094	M	35	32.218	104.343	2	15	10/31/76	10	21.0					
20095	M	35	32.245	104.335	2	97	10/31/76	11	21.0		C			
20097	M	35	32.202	104.274	2	15	10/31/76	11	23.0					
20099	M	35	32.194	104.326	2	15	10/31/76	12	25.0					
20100	M	35	32.193	104.324	2	15	10/31/76	12	25.0					
20102	M	35	32.438	104.757	2	15	10/25/76	10	24.0					
20103	M	35	32.444	104.779	2	15	10/25/76	10	25.0					
20105	M	35	32.424	104.699	2	15	10/25/76	11	25.0					
20106	M	35	32.439	104.694	2	15	10/25/76	11	25.0					
20107	M	35	32.429	104.659	2	15	10/25/76	11	26.0					
20108	M	35	32.427	104.657	2	15	10/25/76	11	26.0					
20109	M	35	32.499	104.721	2	15	10/25/76	12	26.0					
20110	M	35	32.436	104.830	2	97	10/25/76	12	26.0					
20111	M	35	32.433	104.834	2	15	10/25/76	13	26.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
4556	1	14	1	6	4	6			2	4	2.60	<2	4.25	11
4557		5	1	6	4	6			1	5	2.10	<2	4.08	12
4558	1	15	1	6	4	6			1	2	2.50	<2	4.14	12
4559	1	8	1	6	4	6			2	4	2.10	<2	3.45	10
4560	1	12	1	6	4	6			2	4	2.20	<2	3.90	11
4561	1	6	1	6	4	6			1	2	2.20	<2	4.10	12
4562	1	14	1	6	4	6			2	4	2.60	<2	4.43	16
4563	1	4	1	6	4	6			1	4	2.50	<2	4.42	15
4564	1	6	1	6	4	6			2	4	2.00	<2	3.32	11
4565	1	10	1	6	4	6			1	4	2.80	<2	3.98	10
4566	1	8	1	6	4	6			2	4	2.60	<2	3.91	16
4567	1	8	1	6	4	6			1	4	2.30	<2	3.17	12
4568	1	4	1	6	4	6			1	4	2.00	<2	3.66	14
4569	1	12	1	6	4	6			2	4	2.50	<2	3.95	18
4570	1	12	1	6	4	6			2	4	2.20	<2	3.98	17
4571	1	12	1	6	4	6			2	4	2.10	<2	3.93	13
4572	1	13	1	6	4	6			2	4	2.10	<2	3.91	17
4573	1	17	1	6	4	6			2	4	2.30	<2	3.47	13
4574	1	9	1	6	4	6			2	4	2.60	<2	3.64	12
4575	1	9	1	6	4	6			2	4	2.30	<2	3.68	10
4576	1	9	1	6	4	6			1	4	2.70	<2	3.57	11
4577	1	12	1	6	4	6			2	4	2.20	<2	3.30	<10
4578	1	7	1	6	4	6			2	4	2.20	<2	3.02	12
4579	1	7	1	6	4	6			2	2	2.30	<2	3.63	<10
4580	1	12	1	6	4	6			2	2	2.50	<2	3.86	11
4785	1	91	1	6	4	6			2	2	3.20	<2	4.56	30
4786	1	41	1	6	4	6			2	2	2.80	<2	4.70	27
4787	1	55	1	6	4	6			2	2	2.80	<2	4.91	27
4788	1	55	1	6	4	6			2	2	3.00	<2	4.63	28
4789	1	52	1	6	4	6			2	2	2.50	<2	5.00	29
4790	1	52	1	6	4	6			2	2	2.50	<2	5.36	35
4791	1	44	1	6	4	6			2	2	2.50	<2	4.41	21
4792	1	47	1	6	4	6			2	2	2.50	<2	3.82	17
4793	1	19	1	6	4	6			2	2	2.70	<2	4.69	23
4794	1	41	1	6	4	6			2	2	2.80	<2	4.71	27
4795	1	55	1	6	4	6			2	2	3.00	<2	5.22	27
4796	1	33	1	6	4	6			2	2	2.30	<2	4.68	20
4797	1	50	1	6	4	6			2	2	2.50	<2	4.41	20
4798	1	58	1	6	4	6			2	2	2.30	<2	4.80	18
4799	1	36	1	6	4	6			2	2	2.40	<2	4.26	22
20093	1	4	1	6	4	6			3	1	2.10	<2	1.29	18
20094	1	7	1	7	4	6			3	1	2.40	<2	3.67	20
20095	1	9	1	6	4	6			3	1	2.60	<2	3.62	14
20097	1	7	1	6	4	6			1	1	2.50	<2	4.43	24
20099	1	6	1	6	4	6			1	1	2.40	<2	5.59	23
20100	1	6	1	6	4	6			1	1	2.40	<2	3.27	12
20102	1	6	1	7	4	6			2	1	2.40	<2	4.85	17
20103	1	4	1	7	4	6			2	1	1.70	<2	2.77	14
20105	1	8	1	7	4	6			2	1	2.00	<2	3.99	16
20106	1	9	1	7	4	6			2	1	1.80	<2	3.20	17
20107	1	6	1	7	4	7			2	1	2.00	<2	3.01	12
20109	1	6	1	7	4	7			2	1	2.10	<2	3.83	14
20109	1	9	1	7	4	6			2	1	1.70	<2	1.38	<10
20110	1	21	1	7	4	6			3	1	2.50	<2	5.47	21
20111	1	6	1	7	4	6			2	1	2.50	<2	4.13	15

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
4556	530	1	2.06	39	<4	19	11	1.67	<15	1.42	19	17	0.42	267	<4
4557	515	1	2.17	37	4	18	11	1.51	<15	1.38	18	15	0.40	255	<4
4558	491	1	3.69	46	5	22	12	1.73	<15	1.26	21	17	0.50	273	<4
4559	484	1	1.47	37	<4	15	6	1.09	<15	1.32	16	13	0.25	177	<4
4560	489	1	3.34	33	<4	18	10	1.36	<15	1.26	17	15	0.34	212	<4
4561	516	1	2.58	30	<4	18	9	1.41	<15	1.39	15	15	0.33	214	<4
4562	493	1	3.12	46	5	25	14	1.73	<15	1.32	21	17	0.45	287	<4
4563	506	1	3.44	41	5	22	13	1.62	19	1.33	20	17	0.44	263	<4
4564	462	1	2.63	33	<4	14	7	1.03	<15	1.25	15	12	0.29	162	<4
4565	481	1	2.41	32	4	19	11	1.59	<15	1.35	16	17	0.42	262	<4
4566	429	1	5.18	43	5	23	12	1.74	18	1.20	21	17	0.47	268	<4
4567	392	1	6.18	34	4	19	8	1.19	52	1.01	15	13	0.54	219	<4
4568	421	1	6.37	39	4	21	11	1.30	17	1.12	16	15	0.57	224	<4
4569	415	1	7.73	43	5	27	15	1.75	27	1.15	20	17	0.74	291	<4
4570	417	1	7.95	39	4	23	14	1.49	<15	1.07	17	18	0.73	268	<4
4571	483	1	4.28	35	4	19	10	1.29	<15	1.30	17	15	0.50	219	<4
4572	441	1	6.89	41	4	21	12	1.38	<15	1.14	17	17	0.64	245	<4
4573	429	1	5.09	35	4	19	10	1.29	36	1.09	14	15	0.49	214	<4
4574	426	1	5.12	35	4	20	10	1.48	<15	1.15	18	17	0.53	246	<4
4575	407	1	5.26	32	<4	21	11	1.37	<15	1.08	15	14	0.54	255	<4
4576	429	1	5.73	41	4	22	9	1.38	<15	1.05	18	14	0.62	253	<4
4577	427	1	2.04	38	4	16	8	1.24	<15	1.13	17	12	0.30	201	<4
4578	379	1	5.24	36	<4	18	7	1.06	<15	0.94	18	13	0.36	186	<4
4579	460	1	3.17	38	<4	18	9	1.39	25	1.25	18	14	0.33	233	<4
4580	462	1	2.79	41	4	20	10	1.58	<15	1.15	19	15	0.39	275	<4
4785	392	1	6.22	52	9	37	18	2.31	<15	1.09	24	25	0.94	487	<4
4786	383	1	6.93	47	3	37	19	2.24	38	1.09	21	26	1.10	454	<4
4787	397	1	4.64	45	7	34	20	2.24	46	1.20	21	26	1.30	497	<4
4788	329	1	8.07	44	8	43	23	2.31	<15	0.84	21	26	1.10	390	<4
4789	410	1	6.35	55	8	36	21	2.21	<15	1.43	23	28	1.26	450	<4
4790	405	1	4.81	51	7	35	23	2.25	<15	1.72	22	35	1.39	495	<4
4791	429	1	4.09	42	5	23	16	1.72	<15	1.48	20	23	0.91	338	<4
4792	385	1	6.19	40	4	24	15	1.54	<15	1.21	18	26	1.06	268	<4
4793	444	1	3.31	48	6	29	17	2.12	25	1.51	22	23	0.72	372	<4
4794	385	1	4.92	40	7	36	17	2.16	<15	1.40	18	26	0.86	413	<4
4795	427	1	5.49	47	7	38	19	2.27	<15	1.52	20	26	0.95	530	<4
4796	435	1	5.15	42	6	26	20	1.87	<15	1.50	19	25	0.91	359	<4
4797	421	1	4.38	36	5	25	17	1.76	<15	1.34	17	23	0.80	318	<4
4798	485	1	3.93	39	6	25	18	1.95	29	1.49	18	26	1.06	345	<4
4799	374	1	6.12	44	6	26	20	1.80	<15	1.35	19	26	1.34	394	<4
20093	235	<1	23.26	14	<4	8	6	0.59	<15	0.33	3	14	0.88	130	<4
20094	370	1	5.06	41	5	22	12	1.38	<15	1.17	17	19	1.58	263	<4
20095	371	1	2.06	37	4	19	10	1.38	<15	1.29	16	18	0.76	236	<4
20097	441	1	3.50	48	6	26	13	1.69	<15	1.42	22	22	1.16	302	<4
20096	500	1	4.03	46	6	29	16	2.13	18	1.66	22	29	1.02	428	<4
20100	385	1	8.31	36	4	19	9	1.32	<15	1.03	15	16	0.49	197	<4
20102	477	1	3.09	53	6	25	15	1.83	<15	1.65	24	21	0.69	346	<4
20103	343	1	13.81	24	4	15	10	1.00	<15	0.86	10	21	2.68	168	<4
20105	453	1	2.55	41	4	18	10	1.27	<15	1.62	17	15	0.82	220	<4
20106	359	1	11.33	28	<4	15	10	1.11	<15	1.07	11	22	2.18	191	<4
20107	360	1	7.38	29	4	15	9	1.08	<15	0.90	12	18	1.52	196	<4
20108	424	1	6.40	36	5	20	11	1.39	<15	1.13	16	21	1.37	241	<4
20109	208	<1	4.31	17	<4	9	5	0.60	<15	0.74	5	16	0.70	91	<4
20110	515	2	3.58	47	6	28	19	1.98	27	1.76	22	27	1.23	347	<4
20111	488	1	3.74	41	4	24	11	1.59	<15	1.56	18	19	0.66	266	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	T1	V	Y	ZN	ZR
4556	0.79	8	9	277	13	3	155	4	2386	39	10	39	56
4557	0.69	8	9	263	12	3	142	4	2083	35	10	36	54
4558	0.67	11	11	286	22	4	169	7	2382	41	11	40	61
4559	0.76	8	6	129	17	2	132	5	1778	28	7	25	39
4560	0.77	10	9	245	22	3	172	4	2006	32	9	37	50
4561	0.85	9	7	217	10	3	165	<2	2140	34	8	22	51
4562	0.82	11	10	388	21	4	196	5	2442	42	11	47	63
4563	0.81	11	12	317	19	4	190	6	2288	39	10	42	59
4564	0.68	8	6	152	22	2	142	5	1581	25	7	33	39
4565	0.76	9	8	245	<10	3	155	<2	2360	37	9	38	56
4566	0.58	10	10	280	15	4	168	5	2439	40	10	41	60
4567	0.56	10	10	239	<10	3	188	6	1715	30	8	32	43
4568	0.59	8	9	313	23	3	208	8	1644	31	9	35	45
4569	0.57	11	12	396	15	4	234	8	2319	41	11	46	59
4570	0.60	9	12	409	10	4	247	9	1811	35	10	45	52
4571	0.75	8	10	296	18	3	181	8	1786	31	9	34	47
4572	0.66	9	11	349	13	3	229	8	1772	32	10	41	50
4573	0.64	8	8	265	<10	3	193	5	1842	32	9	34	50
4574	0.65	10	7	287	<10	3	197	5	2149	37	9	36	51
4575	0.62	7	10	337	<10	3	199	2	1820	31	9	38	48
4576	0.67	10	9	232	15	3	196	5	2121	35	9	33	50
4577	0.60	7	6	231	21	3	121	9	1947	30	8	32	43
4578	0.55	9	7	195	<10	2	167	7	1663	29	8	29	43
4579	0.73	8	8	219	<10	3	157	4	2109	33	8	34	48
4580	0.64	10	8	291	11	3	156	8	2199	36	9	40	51
4785	0.55	11	19	616	19	6	244	6	2507	58	14	57	59
4786	0.52	10	19	683	11	6	317	9	2301	55	13	65	54
4787	0.57	10	17	1039	16	6	325	5	2264	51	13	74	54
4788	0.31	9	25	740	24	6	324	2	1938	55	13	83	47
4789	0.58	10	20	844	20	6	420	10	2256	53	13	65	56
4790	0.70	9	19	1289	16	6	325	10	2329	52	14	86	57
4791	0.80	8	10	519	12	4	271	4	2059	42	11	49	54
4792	0.57	9	11	458	15	4	785	6	1876	38	10	45	48
4793	0.61	9	17	553	22	5	186	5	2665	49	12	56	55
4794	0.50	9	16	706	16	5	224	6	2358	50	13	67	49
4795	0.62	9	21	836	14	6	241	4	2299	51	13	72	55
4796	0.69	8	14	645	24	4	291	6	2067	42	11	61	47
4797	0.61	6	14	633	29	4	247	7	1856	40	10	56	46
4798	0.79	8	13	465	23	5	259	6	2098	48	10	65	48
4799	0.69	10	16	795	11	4	280	2	2045	39	11	57	53
20093	0.08	9	5	103	20	2	262	3	649	29	5	14	27
20094	0.52	8	11	343	22	3	113	8	1734	35	9	40	54
20095	0.59	6	7	244	<10	3	94	10	1940	32	9	37	58
20097	0.64	12	11	472	31	4	137	9	2163	40	11	48	65
20099	0.62	9	15	547	16	5	145	5	2275	45	13	58	70
20100	0.46	11	9	260	<10	3	146	5	1881	33	9	30	59
20102	0.66	11	13	442	26	4	119	6	2214	39	11	64	60
20103	0.37	9	8	259	15	2	319	2	1223	24	8	27	39
20105	0.72	7	7	277	24	3	128	13	1748	29	9	35	53
20106	0.42	6	7	294	<10	3	279	2	1362	26	8	30	43
20107	0.42	7	7	252	<10	3	203	<2	1293	26	8	28	40
20108	0.54	8	9	316	20	3	184	11	1730	32	10	35	53
20109	0.28	4	6	148	<10	2	62	<2	755	16	4	17	27
20110	0.74	10	12	491	18	4	124	7	2588	48	12	55	73
20111	0.65	7	10	326	15	3	114	5	2569	41	9	40	65

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	CONN	MEAS	PH	CT-F
20112	M	35	32.427	104.855	2	15	10/25/76	13	26.0					
20113	M	35	32.450	104.828	2	15	10/25/76	13	26.0					
20115	M	35	32.461	104.858	2	15	10/25/76	14	25.0					
20116	M	35	32.452	104.879	2	15	10/25/76	14	25.0					
20117	M	35	32.462	104.887	2	15	10/25/76	14	25.0					
20118	M	35	32.472	104.942	2	15	10/25/76	15	24.0					
20119	M	35	32.479	104.924	2	15	10/25/76	15	25.0					
20120	M	35	32.488	104.904	2	15	10/25/76	15	26.0					
20121	M	35	32.489	104.902	2	15	10/25/76	15	25.0					
20122	H	35	32.488	104.874	2	97	10/25/76	16	24.0					
20123	M	35	32.483	104.874	2	15	10/25/76	16	24.0					
20124	M	35	32.487	104.807	2	15	10/25/76	16	24.0					
20125	M	35	32.473	104.771	2	15	10/25/76	16	24.0					
20126	M	35	32.463	104.760	2	15	10/25/76	16	24.0					
20127	M	35	32.465	104.807	2	15	10/25/76	17	23.0					
20128	M	35	32.404	104.586	2	15	10/26/76	9	21.0					
20129	M	35	32.401	104.585	2	15	10/26/76	10	22.0					
20130	M	35	32.406	104.570	2	15	10/26/76	10	22.0					
20131	M	35	32.415	104.558	2	15	10/26/76	10	22.0					
20132	M	35	32.419	104.556	2	15	10/26/76	10	22.0					
20134	M	35	32.372	104.633	2	15	10/26/76	11	23.0					
20135	M	35	32.371	104.631	2	15	10/26/76	11	24.0					
20137	M	35	32.402	104.681	2	15	10/26/76	12	24.0					
20139	M	35	32.399	104.729	2	15	10/26/76	13	23.0					
20141	M	35	32.352	104.740	2	15	10/26/76	15	22.0					
20142	M	35	32.341	104.726	2	15	10/26/76	15	22.0					
20143	M	35	32.327	104.740	2	15	10/26/76	15	22.0					
20144	H	35	32.311	104.702	2	97	10/26/76	16	22.0					
20145	M	35	32.335	104.669	2	15	10/26/76	16	20.0					
20146	H	35	32.346	104.631	2	96	10/26/76	16	20.0					
20147	M	35	32.380	104.714	2	15	10/26/76	14	22.0					
20148	M	35	32.379	104.712	2	15	10/26/76	14	22.0					
20149	M	35	32.175	104.444	2	11	10/28/76	12	18.0	16.0	C		7.8	6000
20150	M	35	32.490	104.653	2	15	10/29/76	10	10.0					
20151	H	35	32.480	104.683	2	97	10/29/76	10	10.0					
20152	H	35	32.460	104.686	2	97	10/29/76	10	10.0					
20153	M	35	32.449	104.649	2	15	10/29/76	10	10.0					
20155	M	35	32.438	104.644	2	15	10/29/76	11	10.0					
20156	M	35	32.438	104.625	2	15	10/29/76	11	10.0					
20157	M	35	32.467	104.604	2	15	10/29/76	11	10.0					
20158	H	35	32.477	104.577	2	96	10/29/76	11	10.0					
20159	M	35	32.447	104.563	2	15	10/29/76	12	12.0					
20160	M	35	32.446	104.562	2	15	10/29/76	12	12.0					
20161	M	35	32.449	104.543	2	15	10/29/76	13	12.0					
20162	M	35	32.457	104.501	2	15	10/29/76	13	12.0					
20163	M	35	32.404	104.484	2	15	10/29/76	13	14.0					
20164	M	35	32.403	104.482	2	15	10/29/76	13	14.0					
20167	M	35	32.438	104.482	2	15	10/29/76	14	14.0					
20168	M	35	32.453	104.461	2	15	10/29/76	15	14.0					
20169	M	35	32.458	104.463	2	15	10/29/76	15	14.0					
20170	M	35	32.458	104.437	2	15	10/29/76	15	14.0					
20171	M	35	32.478	104.419	2	15	10/29/76	15	14.0					
20173	M	35	32.436	104.471	2	15	10/29/76	16	12.0					
20174	M	35	32.491	104.468	2	15	10/29/76	16	12.0					
20175	M	35	32.431	104.424	2	15	10/29/76	16	12.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
20112	1	6	1	7	4	6			3	1	2.40	<2	4.74	19
20113	1	3	1	7	4	6			3	1	2.50	<2	4.61	19
20115	1	9	1	7	4	6			3	1	2.50	<2	4.31	18
20116	1	6	1	7	4	6			3	1	2.80	<2	4.65	20
20117	1	6	1	7	4	6			3	1	2.40	<2	3.92	16
20118	1	11	1	7	4	6			2	1	2.60	<2	6.11	23
20119	1	12	1	7	4	6			2	1	2.70	<2	4.62	18
20120	1	11	1	7	4	6			3	1	3.00	<2	5.18	23
20121	1	9	1	7	4	6			2	1	2.50	<2	4.61	17
20122	1	12	1	7	4	6			2	1	2.40	<2	4.71	19
20123	1	14	1	7	4	6			2	1	2.70	<2	5.59	21
20124	1	8	1	7	4	6			3	1	2.30	<2	4.47	18
20125	1	3	1	7	4	6			2	1	2.80	<2	5.45	23
20126	1	11	1	7	4	6			2	1	2.70	<2	4.46	18
20127	1	16	1	7	4	6			2	1	2.20	<2	4.54	17
20128	1	3	1	7	4	6			2	1	2.00	<2	3.96	11
20129	1	3	1	7	4	6			2	1	2.30	<2	4.32	20
20130	1	1	1	7	4	6			2	1	2.40	<2	4.48	21
20131	1	6	1	7	4	6			2	1	2.30	<2	4.12	21
20132	1	11	1	7	4	6			2	1	2.20	<2	4.12	18
20134	1	4	1	7	4	6			2	1	2.20	<2	4.51	20
20135	1	8	1	7	4	6			2	1	2.20	<2	5.68	27
20137	1	8	1	7	4	6			2	1	2.00	<2	4.17	13
20139	1	8	1	7	4	6			2	1	2.10	<2	4.36	14
20141	1	6	1	7	4	6			3	1	2.40	<2	3.92	15
20142	1	6	1	7	4	6			2	1	2.30	<2	4.57	20
20143	1	14	1	7	4	6			3	1	2.40	<2	4.48	21
20144	1	8	1	7	4	6			2	1	2.20	<2	4.75	19
20145	1	9	1	7	4	6			2	1	1.70	<2	3.55	15
20146	1	9	1	7	4	6			2	1	2.20	<2	5.86	22
20147	1	9	1	7	4	6			2	1	1.40	<2	3.38	12
20148	1	8	1	7	4	6			2	1	2.60	<2	4.31	18
20149	9	1	1	7	4	7	1	1			6.50	<2	<0.05	40
20150	1	9	1	7	4	6			2	1	1.70	<2	3.46	15
20151	1	9	1	7	4	6			2	1	2.00	<2	4.45	<10
20152	1	11	1	7	4	6			2	1	2.00	<2	4.54	15
20153	1	6	1	7	4	6			2	1	2.30	<2	4.23	19
20155	1	3	1	7	4	6			2	1	2.40	<2	4.46	21
20156	1	4	1	7	4	6			2	1	2.50	<2	4.90	24
20157	1	3	1	7	4	6			2	1	2.00	<2	4.28	15
20158	1	4	1	7	4	6			2	1	2.60	<2	3.92	25
20159	1	4	1	7	4	6			2	1	2.40	<2	4.24	19
20160	1	3	1	7	4	6			2	1	2.40	<2	5.21	27
20161	1	4	1	7	4	6			2	1	2.20	<2	4.17	19
20162	1	4	1	7	4	6			2	1	2.00	<2	2.88	17
20163	1	3	1	7	4	6			2	1	1.90	<2	2.78	13
20164	1	3	1	7	4	6			2	1	2.50	<2	3.36	14
20167	1	6	1	7	4	6			2	1	2.20	<2	3.33	15
20168	1	4	1	7	4	6			2	1	2.30	<2	3.49	17
20169	1	3	1	7	4	6			2	1	2.90	<2	3.85	20
20170	1	3	1	7	4	6			2	1	2.20	<2	3.25	16
20171	1	3	1	7	4	6			2	1	2.50	<2	3.80	21
20173	1	6	1	7	4	6			2	1	2.40	<2	5.16	18
20174	1	8	1	7	4	6			2	1	2.30	<2	4.14	14
20175	1	9	1	7	4	6			2	1	3.60	<2	3.53	15

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	NG	MN	MO
20112	532	1	4.26	46	5	26	13	1.80	<15	1.64	20	21	0.71	293	<4
20113	502	1	3.85	45	5	27	15	1.67	18	1.53	19	21	1.41	296	<4
20115	490	1	3.11	38	4	23	13	1.57	<15	1.57	16	20	1.18	285	<4
20116	501	1	2.78	37	4	25	12	1.74	<15	1.71	18	22	1.21	329	<4
20117	537	1	1.75	40	<4	21	8	1.48	<15	1.78	18	16	0.72	280	<4
20118	526	2	4.14	52	7	33	20	2.24	<15	1.71	23	31	1.33	418	<4
20119	470	1	2.06	40	5	24	14	1.68	28	1.55	19	21	0.99	320	<4
20120	528	1	1.67	44	5	32	15	2.00	<15	1.71	21	24	0.96	379	<4
20121	448	1	1.66	43	5	35	14	1.80	<15	1.43	19	21	0.97	341	<4
20122	517	1	3.22	43	5	25	13	1.76	<15	1.60	19	21	0.74	307	<4
20123	535	2	3.08	44	5	30	16	2.15	<15	1.71	23	27	0.71	323	<4
20124	534	1	1.90	42	5	26	11	1.49	<15	1.67	19	19	0.94	284	<4
20125	535	2	2.65	50	6	33	16	2.07	16	1.71	22	24	1.40	399	<4
20126	473	1	4.38	42	5	28	14	1.79	<15	1.45	19	20	1.83	349	<4
20127	538	1	4.48	40	5	23	13	1.63	<15	1.50	19	22	0.90	301	<4
20128	434	1	13.12	34	5	23	15	1.52	<15	1.06	15	26	2.09	331	<4
20129	507	1	2.33	33	4	21	11	1.48	<15	1.78	16	23	0.84	287	<4
20130	488	1	2.52	43	5	24	13	1.60	<15	1.60	19	24	0.93	317	<4
20131	456	1	3.68	31	4	21	10	1.30	<15	1.67	15	24	1.00	249	<4
20132	466	1	3.71	35	4	21	11	1.35	<15	1.65	15	23	1.09	276	<4
20134	481	1	2.49	35	5	23	13	1.60	<15	1.51	16	26	0.78	313	<4
20135	505	2	3.37	55	8	31	18	2.07	<15	1.78	24	34	1.16	432	<4
20137	522	1	1.21	37	4	19	11	1.25	24	1.93	18	20	0.48	224	<4
20139	509	1	1.52	41	4	21	11	1.39	<15	1.92	17	22	0.68	273	<4
20141	454	1	2.88	21	<4	19	9	1.30	<15	1.70	12	15	1.16	239	<4
20142	526	1	1.08	35	4	24	11	1.48	16	1.96	16	24	0.54	319	<4
20143	505	1	1.27	42	6	30	12	1.58	<15	1.73	19	25	0.50	292	<4
20144	518	1	3.51	47	6	25	14	1.72	<15	1.90	21	22	0.56	324	<4
20145	459	1	2.77	27	<4	17	8	1.02	<15	1.56	12	22	0.64	184	<4
20146	559	2	0.60	50	7	29	18	2.10	<15	2.15	23	33	0.72	506	<4
20147	408	1	2.74	26	<4	11	5	0.66	<15	1.70	10	24	1.01	90	<4
20148	515	1	2.09	45	4	25	12	1.57	<15	1.33	20	20	1.03	295	<4
20149	374	<1	4.70	<10	<4	4	19	<0.05	<15	<0.02	<2	10	7.67	36	<4
20150	377	1	15.29	30	4	17	11	1.28	<15	0.37	12	22	0.83	183	<4
20151	481	1	6.62	42	5	22	13	1.51	<15	1.19	18	25	0.75	238	<4
20152	460	1	8.18	38	6	22	13	1.59	<15	1.18	17	27	0.87	248	<4
20153	447	1	4.16	32	5	21	11	1.45	<15	1.63	14	34	1.31	247	<4
20155	443	1	3.97	31	4	23	12	1.56	<15	1.72	14	25	1.45	313	<4
20156	464	1	3.83	44	5	27	14	1.75	<15	1.79	20	30	1.56	357	<4
20157	511	1	2.65	36	4	19	10	1.36	<15	1.77	14	25	0.84	250	<4
20158	392	1	6.39	28	<4	18	10	1.18	<15	1.52	13	30	1.49	321	<4
20159	463	1	4.39	38	5	24	13	1.55	<15	1.55	17	25	1.47	313	<4
20160	457	1	3.69	41	5	27	14	1.82	<15	1.36	20	33	1.59	387	<4
20161	458	1	4.40	38	4	23	12	1.45	<15	1.55	16	24	1.54	290	<4
20162	438	1	11.64	18	<4	13	8	0.84	<15	1.15	6	44	2.57	105	<4
20163	408	1	4.68	23	<4	16	6	0.84	<15	1.36	10	17	1.05	147	<4
20164	410	1	4.22	30	<4	21	9	1.26	<15	1.34	14	18	1.37	231	<4
20167	402	1	6.32	22	<4	18	8	1.12	<15	1.29	11	16	1.36	243	<4
20168	430	1	4.92	33	<4	20	10	1.21	<15	1.37	15	18	1.33	232	<4
20169	446	1	4.42	35	4	23	10	1.46	<15	1.45	16	19	1.38	297	<4
20170	420	1	5.27	30	<4	18	9	1.16	<15	1.27	13	16	1.45	207	<4
20171	437	1	5.38	26	<4	22	10	1.32	16	1.47	13	25	1.58	237	<4
20173	491	2	3.14	40	5	29	15	1.95	<15	1.66	22	23	1.01	407	<4
20174	479	1	5.00	28	<4	21	10	1.40	<15	1.51	14	21	0.94	245	<4
20175	459	1	4.55	39	4	25	10	1.68	<15	1.29	19	17	0.87	267	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
20112	0.68	10	13	360	21	4	123	8	2756	48	11	47	77
20113	0.71	10	13	439	34	4	133	9	2512	44	10	54	71
20115	0.72	9	10	351	12	3	121	<2	2443	40	10	48	65
20116	0.78	9	10	346	12	3	121	<2	2667	44	10	48	71
20117	0.81	9	10	239	19	3	117	6	2830	40	9	37	66
20118	0.64	10	18	511	11	5	131	4	2711	57	13	70	76
20119	0.72	8	9	389	24	4	113	11	2454	42	10	49	65
20120	0.73	8	16	403	22	4	149	3	3058	52	12	55	82
20121	0.60	7	14	373	17	4	131	9	2460	46	11	53	64
20122	0.68	8	11	292	17	4	118	6	2522	44	10	47	69
20123	0.66	9	14	281	23	5	139	4	2859	57	14	57	79
20124	0.79	9	10	309	27	3	140	10	2303	39	9	41	61
20125	0.79	10	15	440	25	4	149	10	2913	53	12	62	78
20126	0.61	9	11	413	20	4	135	2	2506	45	11	56	65
20127	0.64	9	9	344	21	4	147	2	2213	41	10	47	68
20128	0.39	10	15	468	32	4	200	3	1778	40	10	43	53
20129	0.74	7	9	308	12	3	126	2	2291	37	9	41	69
20130	0.65	8	11	343	25	4	121	6	2332	40	10	47	75
20131	0.74	5	9	250	15	3	114	8	2021	34	8	32	76
20132	0.66	7	11	309	24	3	122	7	1945	36	9	44	71
20134	0.55	8	10	319	20	4	108	4	2172	40	10	50	69
20135	0.55	10	19	469	29	5	125	10	2323	50	13	70	71
20137	0.74	7	12	211	21	3	99	9	1917	31	8	44	52
20139	0.73	8	9	302	25	3	105	8	2143	36	9	52	59
20141	0.76	7	9	218	10	3	112	<2	2244	33	9	34	65
20142	0.70	7	9	251	13	3	114	2	2218	41	10	45	61
20143	0.57	8	11	236	22	4	108	7	2368	46	10	50	68
20144	0.59	10	13	299	22	4	104	6	2416	42	11	47	70
20145	0.58	6	10	189	18	2	103	3	1565	27	7	34	49
20146	0.65	10	19	417	25	5	93	2	2639	44	13	67	88
20147	0.95	5	8	132	15	2	124	<2	1038	25	5	16	53
20148	0.76	10	7	300	22	3	120	9	2631	43	9	55	70
20149	<0.05	<4	4	2960	<10	<1	191	4	59	40	1	57	2
20150	0.30	9	9	347	11	3	115	7	1669	33	9	35	53
20151	0.56	11	11	303	24	4	113	6	1987	40	10	40	63
20152	0.50	10	11	345	18	4	122	3	2011	41	10	41	64
20153	0.69	8	9	254	<10	3	125	<2	2117	37	8	39	64
20155	0.65	7	12	342	21	4	117	<2	2168	39	9	46	67
20156	0.66	11	13	384	29	4	120	5	2380	45	11	51	77
20157	0.73	6	10	219	24	3	110	7	2063	34	8	37	63
20158	0.66	6	12	367	15	3	245	4	1539	29	8	33	59
20159	0.62	9	14	320	30	3	125	3	2206	41	9	47	69
20160	0.68	7	15	426	17	4	125	7	2277	43	11	54	70
20161	0.62	9	14	298	27	3	122	<2	2022	37	9	44	64
20162	0.55	6	8	173	<10	2	218	<2	1248	31	5	20	43
20163	0.49	7	8	156	<10	2	187	<2	1517	29	7	16	59
20164	0.53	8	8	199	<10	3	132	<2	2218	36	8	31	73
20167	0.53	6	7	200	10	2	245	<2	1811	32	8	32	57
20168	0.55	8	7	215	17	3	165	6	2013	36	9	35	61
20169	0.59	9	7	259	11	3	150	6	2545	41	10	33	79
20170	0.53	8	8	194	14	3	173	9	1765	30	8	30	56
20171	0.59	7	9	261	<10	3	174	<2	2098	37	9	33	69
20173	0.56	9	15	342	12	4	123	<2	2574	48	12	47	78
20174	0.66	7	10	242	<10	3	162	<2	2210	39	9	32	71
20175	0.57	10	8	197	18	3	144	11	3365	50	10	35	109

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEN	WTEM	CONN	MEAS	PH	CT-F
20178	M	35	32.470	104.278	2	15	10/29/76	17	12.0					
20180	M	35	32.328	104.301	2	15	10/30/76	9						
20181	M	35	32.301	104.329	2	15	10/30/76	9						
20182	M	35	32.295	104.326	2	15	10/30/76	9						
20183	M	35	32.293	104.395	2	15	10/30/76	9	13.0					
20184	M	35	32.260	104.374	2	15	10/30/76	9	13.0					
20185	M	35	32.278	104.363	2	15	10/30/76	10	13.0					
20186	M	35	32.343	104.409	2	15	10/30/76	10	13.0					
20188	M	35	32.332	104.370	2	15	10/30/76	10	13.0					
20189	M	35	32.330	104.371	2	15	10/30/76	10	13.0					
20191	M	35	32.357	104.299	2	15	10/30/76	11	20.0					
20193	M	35	32.361	104.300	2	15	10/30/76	11	20.0					
20194	M	35	32.371	104.302	2	15	10/30/76	11	20.0					
20195	M	35	32.376	104.342	2	15	10/30/76	12	20.0					
20196	M	35	32.379	104.343	2	15	10/30/76	12	20.0					
20197	M	35	32.356	104.488	2	15	10/30/76	12	20.0					
20199	M	35	32.356	104.451	2	15	10/30/76	12	20.0					
20201	H	35	32.282	104.079	2	96	10/26/76	10	19.0					
20202	H	35	32.277	104.079	2	13	10/26/76	10	19.0	14.0			7.3	660
20203	H	35	32.271	104.118	2	96	10/26/76	11	20.0					
20205	H	35	32.261	104.161	2	96	10/26/76	11	25.0					
20206	H	35	32.280	104.216	2	96	10/26/76	12	25.0					
20207	H	35	32.287	104.184	2	96	10/26/76	12	27.0					
20208	H	35	32.312	104.185	2	96	10/26/76	13	25.0					
20209	H	35	32.326	104.187	2	96	10/26/76	14	25.0					
20210	M	35	32.336	104.113	2	15	10/26/76	15	25.0		C			
20211	M	35	32.340	104.069	2	15	10/26/76	16	25.0					
20212	H	35	32.360	104.089	2	96	10/26/76	16	25.0					
20213	M	35	32.454	104.153	2	15	10/28/76	10	1.0					
20214	H	35	32.496	104.085	2	96	10/28/76	11	1.0		C			
20216	H	35	32.482	104.077	2	14	10/28/76	12	4.0	9.0			7.6	360
20217	H	35	32.468	104.127	2	96	10/28/76	12	5.0					
20218	H	35	32.422	104.170	2	96	10/28/76	13	5.0		C			
20219	H	35	32.395	104.125	2	96	10/28/76	14	5.0		C			
20221	H	35	32.395	104.092	2	96	10/28/76	15	5.0					
20223	H	35	32.437	104.112	2	96	10/28/76	16	5.0		C			
20224	H	35	32.461	104.215	2	96	10/29/76	10	7.0					
20225	M	35	32.429	104.064	2	15	10/29/76	11	3.0					
20226	H	35	32.451	104.046	2	96	10/29/76	12	19.0					
20227	H	35	32.429	104.023	2	96	10/29/76	13	11.0					
20228	H	35	32.415	104.057	2	14	10/29/76	13	12.0	10.5			7.2	350
20229	M	35	32.407	104.075	2	15	10/29/76	14	12.0					
20230	M	35	32.383	104.071	2	15	10/29/76	14	12.0					
20231	M	35	32.389	104.055	2	15	10/29/76	15	12.0					
20232	H	35	32.330	104.045	2	96	10/29/76	15	15.0					
20233	M	35	32.351	104.039	2	15	10/29/76	16	14.0					
20234	H	35	32.311	104.071	2	96	10/29/76	16	14.0		C			
20235	H	35	32.493	104.019	2	96	10/30/76	10	20.0					
20236	H	35	32.473	104.026	2	14	10/30/76	10	20.0	12.0			8.4	180
20237	H	35	32.476	104.015	2	96	10/30/76	11	21.0					
20239	H	35	32.545	104.123	2	96	10/30/76	12	22.0					
20241	H	35	32.605	104.140	2	96	10/30/76	13	22.0		C			
20242	H	35	32.563	104.157	2	96	10/30/76	14	23.0					
20243	H	35	32.633	104.220	2	96	10/30/76	14	23.0					
20245	H	35	32.694	104.210	2	96	10/30/76	15	21.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
20178	1	3	1	7	4	6			2	1	2.50	<2	3.63	23
20180	1	4	1	7	4	6			2	1	2.10	<2	3.14	15
20181	1	4	1	7	4	6			2	1	2.10	<2	3.27	20
20182	1	1	1	7	4	6			2	1	2.00	<2	3.46	21
20183	1	4	1	7	4	6			2	1	2.80	<2	4.34	21
20184	1	4	1	7	4	6			2	1	2.20	<2	3.31	16
20185	1	4	1	7	4	6			2	1	2.30	<2	3.68	23
20186	1	4	1	7	4	6			2	1	2.40	<2	4.75	26
20188	1	4	1	7	4	6			2	1	2.60	<2	5.07	22
20189	1	4	1	7	4	6			2	1	2.80	<2	4.10	21
20191	1	9	1	7	4	6			2	1	2.40	<2	3.98	25
20193	1	9	1	7	4	6			2	1	2.50	<2	4.12	18
20194	1	3	1	7	4	6			2	1	2.30	<2	3.54	13
20195	1	4	1	7	4	6			2	1	2.30	<2	4.00	15
20196	1	8	1	7	4	6			2	1	2.30	<2	3.68	22
20197	1	4	1	7	4	6			2	1	2.40	<2	4.36	20
20199	1	6	1	7	4	6			2	1	2.40	<2	4.25	22
20201	1	6	1	6	4	6			1	1	2.30	<2	4.43	25
20202	1	3	1	6	6	6	2	1	1	1	1.50	<2	3.83	25
20203	1	4	1	4	4	6			1	1	2.10	<2	5.07	26
20205		9	1	6	4	6			1	1	1.80	<2	4.51	23
20206	1	6	1	6	4	6			1	1	2.30	<2	3.44	15
20207	1	6	1	4	4	4			1	1	1.50	<2	4.49	20
20208		6	1	6	4	6			1	1	2.20	<2	4.46	19
20209	1	6	1	6	4	6			1	1	2.40	<2	3.95	19
20210	1	6	1	6	6	8			1	1	3.00	<2	4.04	25
20211	1	6	1	6	4	6			1	1	2.30	<2	2.85	15
20212	1	8	1	4	4	4			1	1	2.50	<2	3.85	18
20213	4	3	1	6	4	6			1	4	1.50	<2	1.93	<10
20214	4	4	1	4	4	4			1	4	1.80	<2	3.66	13
20216	3	3	1	4	4	4	1	2	1	4	2.10	<2	3.56	10
20217	4	3	1		4	6			1	3	2.60	<2	4.78	20
20218	9	16	1	4	5	6			1	3	2.70	<2	6.21	28
20219	9	22	1	4	5	6			1	3	2.70	<2	6.33	25
20221	1	4	1	4	4	6			1	3	3.00	<2	3.43	<10
20223	1	9	1	4	5	6			1	3	2.30	<2	6.12	31
20224	1	5	1	4	4	6			1	3	2.50	<2	4.22	19
20225	1	5	1	4	4	6			1	3	2.10	<2	3.47	16
20226	1	5	1	4	4	4			1	3	2.30	<2	2.75	11
20227	1	2	1	4	4	4			1	2	2.00	<2	3.80	17
20228	1	9	1	4	5	8		4	1	2	2.50	<2	5.28	23
20229	1	5	1	4	4	4			1	2	2.20	<2	3.68	21
20230	1	8	1	4	4	4			1	1	2.80	<2	4.31	18
20231	1	4	1	4	4	4			1	1	2.50	<2	2.41	12
20232	1	11	1	4	4	6			1	1	2.20	<2	4.78	27
20233	1	5	1	4	4	4			1	1	2.40	<2	3.56	20
20234	1	8	1	4	4	6			1	1	2.60	<2	5.13	29
20235	1	12	1	4	4	6			1	1	2.00	<2	2.95	18
20236	1	9	1	4	5	8		4	1	1	2.10	<2	5.55	27
20237	1	15	1	4	4	6			1	1	2.30	<2	6.36	31
20239	1	3	1	4	4	1			1	1	0.20	<2	0.26	<10
20241	5	6	1	4	4	6			1	1	2.10	<2	3.70	15
20242	1	6	1	4	4				1	1	2.20	<2	4.51	19
20243	1	6	1	4	4	6			1		2.00	<2	4.38	18
20245	1	18	1	4	5	8			1	1	2.60	<2	6.59	17

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CU	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
20178	464	1	3.11	36	<4	21	11	1.38	<15	1.42	18	33	1.00	241	<4
20180	405	1	6.46	30	<4	19	10	1.06	13	1.17	13	20	1.28	184	<4
20181	379	1	5.00	28	<4	21	9	1.16	<15	1.23	13	21	1.38	214	<4
20182	434	1	7.48	28	<4	21	11	1.21	19	1.18	14	21	1.41	229	<4
20183	463	1	3.45	45	5	27	13	1.70	<15	1.50	22	21	0.88	318	<4
20184	155	1	3.99	23	<4	20	8	1.07	<15	1.41	11	23	1.55	194	<4
20185	403	1	4.10	32	<4	21	10	1.24	<15	1.43	14	24	1.32	219	<4
20186	464	1	3.43	38	4	26	16	1.71	<15	1.50	18	25	1.22	318	<4
20188	511	1	2.34	45	4	27	16	1.86	<15	1.64	20	23	0.98	357	<4
20189	457	1	2.43	43	4	26	12	1.59	<15	1.50	19	21	0.97	279	<4
20191	424	1	3.08	36	5	28	13	1.48	<15	1.52	18	27	0.93	264	<4
20193	449	1	1.83	38	4	21	11	1.48	<15	1.43	16	19	0.79	251	<4
20194	380	1	4.49	29	4	22	12	1.31	<15	1.18	12	20	1.29	249	<4
20195	407	1	3.90	38	5	24	12	1.47	<15	1.31	15	22	1.30	271	<4
20196	390	1	2.60	35	5	24	9	1.38	<15	1.27	15	24	0.71	229	<4
20197	414	1	6.19	45	6	33	12	1.74	18	1.06	21	24	1.55	308	<4
20199	406	1	3.23	48	5	28	11	1.62	19	1.30	19	23	1.24	275	<4
20201	352	1	3.35	45	5	24	14	1.77	15	1.52	20	25	0.85	249	<4
20202	409	1	4.19	40	5	20	12	1.37	<15	1.42	16	21	0.80	233	<4
20203	436	1	6.18	53	7	31	19	2.13	<15	1.39	23	25	1.07	452	<4
20205	443	1	11.92	50	7	27	17	1.92	18	1.11	21	21	0.80	319	<4
20206	400	1	4.26	39	4	18	10	1.31	<15	1.28	15	17	0.57	209	<4
20207	503	1	14.54	45	6	27	15	1.93	<15	0.94	18	26	1.21	281	<4
20208	408	1	6.18	43	5	25	13	1.75	<15	1.39	18	22	0.69	246	<4
20209	410	1	4.45	48	6	24	12	1.68	<15	1.22	20	17	0.68	267	<4
20210	396	1	6.25	40	5	23	12	1.52	<15	1.21	16	24	1.45	274	<4
20211	350	1	2.44	43	4	16	6	1.17	<15	1.04	18	13	0.39	190	<4
20212	401	1	1.07	37	<4	20	10	1.40	<15	1.36	16	17	0.55	262	<4
20213	227	<1	9.84	14	<4	10	5	0.76	<15	0.66	6	10	0.28	117	<4
20214	325	1	0.48	32	4	21	11	1.75	<15	1.20	14	18	0.38	234	<4
20216	419	1	1.29	37	5	18	9	1.28	<15	1.32	15	15	0.42	203	<4
20217	416	1	1.36	39	7	26	13	2.03	<15	1.51	19	30	0.88	415	<4
20218	497	2	0.75	70	11	37	23	2.70	<15	1.68	31	25	0.76	624	<4
20219	513	2	0.63	67	9	39	19	2.86	<15	1.67	29	26	0.98	672	<4
20221	436	1	9.67	21	<4	18	9	1.29	<15	1.21	11	23	0.81	266	<4
20223	496	2	1.88	47	6	33	19	2.59	<15	1.92	23	30	0.98	516	<4
20224	515	1	3.69	43	4	22	13	1.67	<15	1.48	18	15	0.51	289	<4
20225	404	1	1.28	32	<4	16	10	1.29	<15	1.43	15	16	0.32	201	<4
20226	329	1	0.21	32	<4	14	7	1.23	<15	1.22	14	14	0.18	188	<4
20227	421	1	0.31	35	<4	18	11	1.40	<15	1.56	16	18	0.29	238	<4
20228	514	2	0.62	47	5	26	16	1.88	<15	2.03	22	23	0.55	323	<4
20229	458	1	3.13	31	<4	18	11	1.26	<15	1.43	15	17	0.59	233	<4
20230	376	1	0.33	37	4	26	12	2.06	<15	1.46	18	23	0.36	265	<4
20231	310	1	0.24	46	<4	19	11	1.78	<15	1.06	22	12	0.17	276	<4
20232	523	2	2.37	43	6	25	16	1.72	<15	1.57	20	24	0.97	339	<4
20233	407	1	1.46	33	4	20	10	1.50	<15	1.42	16	19	0.73	230	<4
20234	513	2	3.26	47	6	27	18	1.95	<15	1.80	21	25	0.91	508	<4
20235	9262	1	2.13	21	<4	30	16	1.57	<15	1.12	11	17	0.37	187	<4
20236	590	2	2.00	37	6	27	17	2.09	<15	1.74	18	29	0.78	303	<4
20237	532	2	2.71	48	8	34	22	2.60	<15	1.84	21	44	1.71	474	<4
20239	48	<1	20.91	<10	<4	2	2	0.11	<15	0.09	<2	3	<0.05	19	<4
20241	457	1	1.38	36	4	17	12	1.35	<15	1.47	15	17	0.37	248	<4
20242	479	1	2.45	41	5	23	15	1.63	<15	1.68	18	27	0.61	327	<4
20243	504	1	1.20	32	4	20	12	1.45	<15	1.68	17	18	0.48	227	<4
20245	534	2	0.76	60	9	40	20	2.90	<15	2.01	31	34	0.76	578	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PU	SC	SR	TH	TI	V	Y	ZN	ZR
20178	0.58	7	11	233	41	3	114	4	2308	38	9	35	76
20180	0.43	7	9	255	11	3	138	8	1574	31	7	36	54
20181	0.44	7	10	280	23	3	123	7	1711	34	8	31	63
20182	0.41	7	6	387	20	3	156	11	1667	35	8	36	56
20183	0.58	10	11	346	23	4	133	8	2677	48	11	42	90
20184	0.52	5	7	180	10	2	115	4	1735	31	7	29	61
20185	0.58	7	7	236	15	3	123	5	1942	35	8	30	72
20186	0.60	9	13	426	16	4	137	3	2343	46	11	48	76
20188	0.65	8	10	465	16	4	129	4	2635	46	11	56	79
20189	0.63	10	8	312	15	3	123	9	2617	45	10	39	86
20191	0.48	8	14	303	28	3	177	10	2158	44	9	45	72
20193	0.71	8	9	298	16	3	119	<2	2302	35	9	44	67
20194	0.51	7	13	298	<10	3	127	<2	1743	32	9	33	55
20195	0.57	8	12	334	15	3	133	5	1971	36	9	39	60
20196	0.47	7	9	263	15	3	128	3	1866	36	9	35	65
20197	0.45	11	13	345	23	5	160	10	2126	44	12	42	69
20199	0.57	9	10	334	22	4	129	12	2148	41	10	40	70
20201	0.52	9	13	810	14	4	136	4	2172	41	11	56	67
20202	0.54	7	11	508	15	3	147	3	1699	39	9	34	54
20203	0.39	9	17	906	27	5	236	5	2112	52	13	66	68
20205	0.28	13	16	793	18	5	122	7	1905	44	13	63	62
20206	0.51	10	11	250	<10	3	121	4	2010	33	8	31	64
20207	0.21	11	14	482	10	5	200	<2	1811	48	13	53	58
20208	0.46	8	11	369	11	4	126	<2	2111	45	11	44	67
20209	0.46	10	11	327	21	4	128	10	2184	41	11	39	71
20210	0.66	8	10	407	<10	4	272	3	1929	42	10	44	58
20211	0.59	9	2	124	15	2	122	7	1948	40	8	22	68
20212	0.76	7	8	401	<10	3	100	7	2053	34	9	35	67
20213	0.31	6	5	123	<10	2	1501	5	1121	23	5	19	34
20214	0.38	5	13	157	17	4	63	5	1902	48	7	39	48
20216	0.60	11	12	271	18	3	87	5	1800	32	8	30	54
20217	0.52	7	12	435	<10	5	113	<2	2192	43	11	51	69
20218	0.52	12	19	784	34	7	110	9	2710	52	18	104	89
20219	0.49	12	19	818	20	7	100	7	2844	55	17	83	96
20221	0.61	7	9	440	<10	3	323	<2	1545	44	9	37	53
20223	0.51	9	20	991	27	6	127	6	2816	76	13	74	85
20224	0.61	9	10	328	25	3	108	4	2350	46	9	39	74
20225	0.55	7	6	157	14	3	83	2	1970	34	8	32	60
20226	0.49	7	7	102	16	2	59	5	2082	36	7	22	64
20227	0.61	6	8	205	<10	3	78	5	2116	36	8	38	70
20228	0.74	9	13	590	19	4	102	3	2537	44	12	53	82
20229	0.66	7	8	284	17	3	153	4	1961	40	8	33	62
20230	0.52	9	9	148	19	4	74	5	2811	54	9	39	89
20231	0.43	12	11	95	11	2	55	10	3362	55	10	38	103
20232	0.66	9	11	412	31	4	129	7	2145	46	10	46	67
20233	0.59	7	8	150	13	3	88	6	2161	42	7	29	67
20234	0.62	9	18	616	26	4	158	10	2399	50	11	57	74
20235	0.46	6	14	147	62	2	247	4	1661	36	6	95	48
20236	0.50	7	17	411	20	5	91	3	2246	49	10	51	72
20237	0.41	8	23	739	21	6	102	7	2478	62	12	68	77
20239	<0.05	6	4	52	<10	<1	2112	<2	156	3	1	3	6
20241	0.62	7	11	295	17	3	137	3	1966	37	8	32	58
20242	0.69	8	12	498	15	4	190	9	2177	46	9	51	65
20243	0.72	7	11	370	15	3	108	<2	2150	35	9	43	68
20245	0.61	11	22	728	<10	8	112	5	2932	56	19	86	93

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	CONN	MEAS	PH	CT-F
20246	H	35	32.739	104.197	2	96	10/30/76	15	22.0					
20247	H	35	32.709	104.187	2	96	10/30/76	16	23.0					
20249	H	35	32.567	104.221	2	96	10/30/76	16	22.0					
20250	M	35	32.567	104.192	2	15	10/30/76	17	21.0					
20251	H	35	32.540	104.192	2	96	10/30/76	17	20.0					
20252	H	35	32.511	104.193	2	13	10/30/76	17	21.0	20.0			9.4	43000
20253	H	35	32.716	104.026	2	96	10/31/76	11	17.0					
20255	H	35	32.736	104.087	2	96	10/31/76	12	21.0					
20256	H	35	32.746	104.111	2	14	10/31/76	12	20.0	18.0			8.9	290
20257	H	35	32.730	104.167	2	96	10/31/76	12	20.0					
20258	M	35	32.709	104.131	2	15	10/31/76	13	21.0					
20259	H	35	32.699	104.091	2	96	10/31/76	13	21.0		C			
20260	H	35	32.660	104.025	2	97	10/31/76	14	22.0					
20262	H	35	32.680	104.051	2	96	10/31/76	15	20.0		C			
20263	H	35	32.679	104.092	2	96	10/31/76	16	16.0					
20265	H	35	32.618	104.174	2	96	11/02/76	10	17.0		C			
20267	H	35	32.517	104.166	2	96	11/02/76	11	18.0					
20268	H	35	32.503	104.129	2	96	11/02/76	12	20.0					
20269	H	35	32.581	104.011	2	96	11/02/76	13	22.0					
20271	H	35	32.609	104.031	2	96	11/02/76	13	25.0					
20273	H	35	32.626	104.021	2	96	11/02/76	14	25.0					
20274	H	35	32.678	104.175	2	96	11/02/76	15	22.0					
20275	H	35	32.731	104.237	2	96	11/02/76	15	22.0					
20276	H	35	32.574	104.242	2	96	11/02/76	16	19.0					
20278	M	35	32.565	104.291	2	15	11/03/76	9	9.0					
20279	M	35	32.550	104.297	2	15	11/03/76	9	9.0					
20280	M	35	32.534	104.284	2	15	11/03/76	10	9.0					
20281	M	35	32.532	104.301	2	15	11/03/76	10	9.0					
20282	H	35	32.596	104.347	2	13	11/03/76	12	14.0	15.0	C		7.6	10000
20284	M	35	32.669	104.327	2	15	11/03/76	13	19.0					
20286	M	35	32.520	104.353	2	15	11/03/76	14	23.0					
20287	M	35	32.507	104.337	2	15	11/03/76	15	21.0					
20288	M	35	32.513	104.317	2	15	11/03/76	15	20.0					
20289	M	35	32.589	104.281	2	15	11/03/76	16	17.0					
20291	M	35	32.623	104.311	2	15	11/04/76	10	16.0					
20292	M	35	32.630	104.309	2	15	11/04/76	11	16.0					
20293	M	35	32.659	104.306	2	15	11/04/76	11	16.0					
20295	M	35	32.688	104.296	2	15	11/04/76	12	16.0					
20296	M	35	32.703	104.297	2	15	11/04/76	12	17.0					
20298	M	35	32.729	104.299	2	15	11/04/76	13	17.0					
20299	M	35	32.736	104.280	2	11	11/04/76	14	19.0	18.5			7.3	35000
20302	H	35	32.535	104.009	2	96	10/26/76	13	29.0					
20303	M	35	32.637	104.065	2	15	10/26/76	16	26.0					
20304	M	35	32.627	104.090	2	15	10/26/76	16	26.0					
20306	H	35	32.668	104.126	2	96	10/26/76	17	26.0		C			
20307	M	35	32.242	104.047	2	12	10/31/76	11	24.0	12.0			7.7	6500
20322	H	35	32.192	104.024	2	13	10/31/76	12	21.0	22.0	C		9.2	50000
20324	M	35	32.218	104.234	2	15	11/04/76	11	25.0					
20325	M	35	32.231	104.209	2	15	11/04/76	11	24.0					
20326	M	35	32.236	104.196	2	12	11/04/76	12	25.0	14.0			7.6	1900
20327	M	35	32.229	104.158	2	15	11/04/76	12	25.0					
20329	M	35	32.188	104.138	2	15	11/04/76	12	25.0					
20330	M	35	32.166	104.158	2	15	11/04/76	13	25.0					
20331	M	35	32.159	104.147	2	15	11/04/76	13	26.0					
20333	M	35	32.106	104.136	2	15	11/04/76	15	22.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
20246	1	9	1	4	5	8			1	1	2.60	<2	6.93	21
20247	1	9	1	4	5	8			2	1	2.50	<2	6.34	24
20249	1	10	1	4	4	4			2	1	1.50	<2	2.92	11
20250	1	12	1	4	4	4			2	1	1.60	<2	2.65	13
20251	1	6	1	4	5	6			1	1	2.10	<2	3.60	19
20252	1	15	1	4	5	8	1	5	2	1	7.90	<2	3.56	<10
20253	1	11	1	4	4	6			1	1	1.50	<2	4.47	13
20255	1	7	1	4	4	4			1	1	2.20	<2	3.38	13
20256	1	10	1	4	5	6		4	1	1	2.30	<2	5.81	24
20257	1	11	1	4	4	6			1	1	2.40	<2	6.63	23
20258	1	4	1	4	4	4			1	1	2.00	<2	3.45	14
20259	2	9	1	4	4	4			2	1	1.90	<2	4.05	18
20260	1	17	1	4	5	6			2	1	2.30	<2	5.47	29
20262	1	2	1	4	4	4			2	1	2.30	<2	2.78	<10
20263	1	5	1	4	4	4			2	1	2.10	<2	3.74	<10
20265	2	5	1	4	4	4			2	1	2.70	<2	4.56	17
20267	1	8	1	4	4	4			1	1	2.50	<2	4.13	13
20268	1	7	1	4	4	4			2	1	3.90	<2	2.56	10
20269	1	11	1	4	4	6			1	1	2.20	<2	4.73	29
20271	1		1	4	4	6			1	1	2.20	<2	4.35	19
20273	1	12	1	4	5	6			1	1	2.00	<2	5.12	14
20274	1	11	1	4	5	6			1	1	2.30	<2	5.50	18
20275	1	5	1	4	5	6			1	1	2.20	<2	4.62	25
20276	1	12	1	4	5	6			1	1	2.40	<2	5.52	21
20278	3	8	1	4	4	4			2	1	1.50	<2	2.90	13
20279	3	8	1	4	4	6			2	3	2.50	<2	5.74	25
20280	1	8	1	4	4	4			2	3	2.70	<2	5.58	21
20281	1	8	1	4	4	6			2	3	2.40	<2	3.94	14
20282	1	10	1	4	5	6		1	2	2	2.40	<2	3.18	18
20284	1	8	1	4	4	6			1	1	2.70	<2	4.43	13
20286	1	5	1	1	4	4			3	1	2.40	<2	3.39	13
20287	1	12	1	4	4	4			2	1	2.50	<2	3.84	25
20289	1	12	1	4	4	6			3	1	2.40	<2	3.36	19
20289	1	5	1	4	4	4			2	1	1.50	<2	2.90	16
20291	1	11	1	1	4	6			3	1	2.50	<2	4.03	25
20292	1		1	1	4	4			3	1	2.10	<2	2.98	19
20293	1	2	1	1	4	4			3	1	0.60	<2	0.72	<10
20295	1	8	1	4	4	4			2	1	2.10	<2	3.34	22
20296	1	7	1	4	4	4			3	1	1.40	<2	2.57	<10
20298	1	7	1	4	4	4			2	1	2.00	<2	3.88	24
20299	3	2	1	1	4	4		1	4	1	1.00	<2	1.18	<10
20302	1	15	1	6	4	6			2	1	2.50	<2	4.57	19
20303	1	9	1	7	4	6			3	1	2.20	<2	3.58	18
20304	1	4	1	7	5	6			2	1	1.30	<2	1.99	<10
20306	9	9	1	7	5	6			2	1	2.00	<2	4.40	21
20307	1	7	1	7	6	5	2	2	2	1	2.00	<2	3.11	19
20322	1	4	1	7	6	4		1	2	1	1.60	<2	2.81	12
20324	1	7	1	7	5	6			2	1	2.00	<2	3.52	22
20325	1	7	1	7	4	6			2	1	2.10	<2	2.74	18
20326	1	6	1	7	4	7	3	2	2	1	2.60	<2	2.26	13
20327	1	6	1	7	5	6			2	1	2.10	<2	3.44	22
20328	1	9	1	6	5	6			1	1	2.10	<2	4.53	22
20330	1	7	1	7	5	6			2	1	1.70	<2	3.28	16
20331	1	9	1	6	4	6			1	1	1.90	<2	3.22	16
20333	1	6	1	6	4	4			2	1	1.70	<2	2.77	16

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	EA	RE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
20246	534	2	0.62	71	10	51	24	3.08	<15	2.09	24	35	0.75	666	<4
20247	483	2	0.60	60	9	48	22	2.72	<15	1.95	31	32	0.70	433	<4
20249	767	1	0.68	43	<4	19	7	1.67	<15	1.44	24	16	0.24	246	<4
20250	455	1	7.23	32	<4	14	6	1.02	<15	1.07	14	16	0.41	161	<4
20251	419	1	7.08	39	4	21	14	1.42	<15	1.30	20	22	0.48	273	<4
20252	409	1	4.84	33	4	19	11	1.37	<15	1.37	17	31	1.25	264	<4
20253	449	1	2.00	32	4	23	12	1.73	<15	1.59	16	23	0.49	300	<4
20255	383	1	0.45	42	4	20	10	1.52	<15	1.43	21	18	0.26	253	<4
20256	506	2	1.90	57	8	33	18	2.41	<15	1.82	28	30	0.68	377	<4
20257	489	2	0.62	54	7	38	21	2.89	<15	2.11	30	34	0.68	506	<4
20258	374	1	1.14	35	4	20	9	1.48	<15	1.37	19	18	0.33	218	<4
20259	406	1	0.42	35	4	22	10	1.61	<15	1.66	19	22	0.36	266	<4
20260	505	1	7.01	49	8	33	21	2.33	<15	1.56	23	32	0.95	327	<4
20262	338	1	0.21	38	<4	15	8	1.33	<15	1.43	19	16	0.18	207	<4
20263	371	1	2.34	38	4	22	12	1.63	<15	1.43	21	15	0.44	233	<4
20265	471	1	0.72	60	7	31	14	2.50	<15	1.43	32	23	0.51	361	<4
20267	435	1	0.78	47	5	24	12	1.77	<15	1.48	24	20	0.49	308	<4
20268	295	1	6.73	25	<4	13	8	0.94	<15	1.00	11	26	1.58	184	<4
20269	470	1	2.90	54	7	26	18	1.94	<15	1.64	25	27	0.68	453	<4
20271	466	1	2.39	41	5	24	15	1.72	<15	1.54	21	21	0.51	368	<4
20273	424	1	8.59	41	6	28	18	2.11	<15	1.52	22	27	0.73	299	<4
20274	459	1	0.52	58	9	33	19	2.36	<15	1.76	21	25	0.59	498	<4
20275	454	1	0.73	53	7	27	16	1.87	<15	1.65	26	26	0.82	518	<4
20276	486	2	2.24	70	9	35	21	2.49	<15	1.78	33	27	0.77	431	<4
20278	713	1	9.78	33	4	18	10	1.22	<15	1.03	16	23	0.76	224	<4
20279	479	1	3.55	52	7	35	21	2.41	<15	1.81	26	35	1.57	619	<4
20280	498	1	0.76	59	9	33	19	2.44	<15	1.82	29	26	0.72	547	<4
20281	458	1	3.75	37	5	22	13	1.53	<15	1.48	19	21	0.65	304	<4
20282	542	1	4.04	33	4	18	13	1.17	<15	1.25	16	17	0.51	214	<4
20284	483	1	5.61	42	5	29	14	1.77	<15	1.45	21	25	1.64	373	<4
20286	434	1	4.35	28	<4	18	10	1.14	<15	1.52	15	21	1.22	225	<4
20287	416	1	3.49	36	4	24	16	1.41	<15	1.56	17	27	0.88	253	<4
20288	404	1	3.93	40	4	21	18	1.24	<15	1.23	18	16	1.13	251	<4
20289	322	1	9.28	30	4	19	17	1.16	<15	1.00	15	32	0.96	223	<4
20291	352	1	4.60	35	4	25	21	1.49	<15	1.51	18	47	1.71	282	<4
20292	320	1	7.55	33	<4	20	17	1.10	<15	1.02	14	33	1.23	147	<4
20293	80	<1	21.75	10	<4	6	9	0.30	<15	0.19	2	12	0.34	53	<4
20295	363	1	3.34	32	<4	20	19	1.20	<15	1.24	16	25	1.09	252	<4
20296	282	1	3.89	21	<4	15	16	0.88	<15	0.90	9	28	1.16	173	<4
20299	409	1	3.70	35	4	23	21	1.38	<15	1.36	16	36	1.39	290	<4
20299	154	<1	17.50	<10	<4	9	13	0.55	<15	0.40	3	13	0.45	93	<4
20302	468	1	0.60	43	7	26	24	2.01	<15	1.61	23	21	0.58	441	<4
20303	506	1	7.85	35	5	20	18	1.34	<15	1.24	17	20	0.62	253	<4
20304	268	<1	13.57	17	<4	11	16	0.82	<15	0.67	8	14	0.26	149	<4
20306	471	1	4.51	43	6	26	20	1.80	<15	1.48	22	24	0.58	271	<4
20307	301	1	13.99	32	4	22	16	1.24	<15	0.90	14	23	1.01	324	<4
20322	381	1	2.48	21	<4	11	15	0.88	<15	1.39	11	16	0.36	158	<4
20324	426	1	6.08	32	4	19	18	1.29	<15	1.46	16	22	0.72	241	<4
20325	324	1	12.74	28	<4	18	16	1.05	<15	0.98	13	20	0.99	205	<4
20326	293	1	11.98	21	<4	14	14	0.93	<15	0.81	10	17	0.96	151	<4
20327	385	1	11.50	26	4	20	16	1.25	<15	1.16	13	26	1.11	205	<4
20328	553	1	8.67	39	6	25	24	1.78	<15	1.45	20	29	0.87	339	<4
20330	422	1	3.65	36	<4	18	20	1.21	<15	1.41	17	15	0.49	224	<4
20331	452	1	3.22	40	4	17	19	1.21	<15	1.36	18	17	0.42	244	<4
20333	424	1	5.46	25	4	16	19	1.25	<15	1.07	13	18	0.44	210	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NT	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
20246	0.56	12	29	737	22	8	111	9	3067	59	21	59	98
20247	0.61	11	27	773	22	8	108	5	2669	53	19	50	87
20249	0.64	8	5	142	11	3	76	7	2506	44	9	30	76
20250	0.55	9	6	140	10	2	159	6	1591	31	7	22	57
20251	0.59	9	11	379	11	4	377	3	1803	35	11	42	60
20252	1.59	7	10	384	10	4	502	4	1625	35	10	36	53
20253	0.67	7	11	397	<10	4	105	3	1930	39	10	45	63
20255	0.60	8	9	259	12	3	77	9	2106	38	9	16	66
20256	0.64	12	17	598	15	6	110	7	2514	53	16	68	78
20257	0.57	12	19	796	20	8	103	6	2859	57	18	81	91
20258	0.57	7	9	202	<10	3	86	13	2001	36	9	33	66
20259	0.68	7	12	255	<10	4	85	4	2020	39	10	40	67
20260	0.47	10	19	817	16	6	209	10	2082	56	13	103	67
20262	0.58	7	7	131	10	2	65	9	2017	36	8	28	66
20263	0.51	9	13	237	<10	4	90	8	1926	42	10	36	63
20265	0.55	11	16	240	10	5	91	8	3158	65	15	57	101
20267	0.70	10	12	257	<10	4	125	6	2259	41	12	44	69
20268	0.70	8	8	258	<10	3	1905	3	1159	44	6	26	39
20269	0.68	10	13	896	32	5	240	14	2072	44	14	72	68
20271	0.71	9	13	549	25	4	200	7	2118	41	12	55	66
20273	0.48	10	15	683	15	6	159	7	1965	44	13	73	66
20274	0.57	12	18	704	21	6	94	7	2465	46	16	61	81
20275	0.60	10	14	828	15	5	103	7	2142	40	13	60	71
20276	0.50	13	18	787	15	7	122	8	2618	57	17	83	87
20278	0.45	10	9	332	14	3	154	9	1577	33	9	34	61
20279	0.57	10	19	987	14	7	166	8	2298	52	16	75	76
20280	0.69	12	18	498	14	6	115	11	2676	52	16	70	83
20281	0.73	8	11	346	<10	4	123	6	2041	37	11	44	65
20282	0.64	7	10	240	10	3	165	5	1731	33	9	36	58
20284	0.66	10	14	547	<10	4	199	2	2237	45	13	54	68
20286	0.69	8	7	231	10	3	141	<2	1810	30	9	34	59
20287	0.62	12	12	317	10	4	163	4	2071	37	11	52	76
20288	0.59	10	10	273	14	3	146	13	1835	33	10	58	63
20289	0.44	10	11	319	11	3	516	4	1581	31	9	47	57
20291	0.69	8	13	380	13	4	152	7	1796	37	11	62	74
20292	0.51	9	9	296	<10	3	304	6	1450	31	9	48	62
20293	0.09	10	3	68	<10	1	2213	5	363	8	2	23	14
20295	0.71	7	11	423	11	3	300	6	1649	32	9	51	64
20296	0.50	6	8	235	<10	3	786	3	1141	25	7	42	42
20298	0.66	9	13	410	<10	4	249	9	1723	36	10	99	66
20299	0.20	9	6	156	<10	1	449	4	774	15	4	32	30
20302	0.62	9	16	481	12	5	105	8	2374	45	13	76	78
20303	0.64	10	13	502	11	4	205	15	1843	33	10	58	63
20304	0.33	8	9	213	<10	2	1378	5	1090	22	6	43	36
20306	0.53	11	16	501	18	5	129	10	1980	43	13	65	68
20307	0.38	12	13	305	<10	4	571	6	1519	35	10	48	56
20322	0.75	5	6	213	10	2	116	4	1312	23	7	41	44
20324	0.51	10	10	338	13	3	146	2	1660	35	10	53	61
20325	0.41	13	8	284	<10	3	323	<2	1635	31	9	44	63
20326	0.33	10	5	227	33	2	252	<2	1524	26	8	53	55
20327	0.52	10	9	273	<10	4	349	5	1671	37	10	48	63
20328	0.52	11	16	529	11	5	196	12	1960	47	13	62	69
20330	0.55	8	10	294	15	3	142	10	1681	32	10	46	58
20331	0.59	9	10	248	10	3	120	13	1812	33	10	45	61
20333	0.40	8	10	238	16	3	211	2	1445	37	8	43	49

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	COMM	NEAS	PH	CT-F
20334	M	35	32.114	104.154	2	15	11/04/76	15	22.0					
20335	M	35	32.113	104.155	2	15	11/04/76	15	22.0					
20337	M	35	32.116	104.185	2	15	11/04/76	16	20.0					
20339	M	35	32.115	104.207	2	15	11/04/76	17	20.0					
20340	H	35	32.189	104.085	2	96	11/05/76	14	29.0					
20341	M	35	32.182	104.120	2	15	11/05/76	15	29.0					
20342	H	35	32.177	104.103	2	13	11/05/76	15	29.0	23.0			8.5	230
20343	M	35	32.172	104.107	2	15	11/05/76	15	28.0					
20345	M	35	32.142	104.075	2	15	11/05/76	16	25.0					
20347	M	35	32.091	104.096	2	15	11/05/76	17	24.0					
20348	M	35	32.088	104.095	2	15	11/05/76	17	24.0					
20350	H	35	32.193	104.028	2	96	11/06/76	11	25.0					
20351	M	35	32.394	104.436	2	15	10/30/76	13	22.0					
20352	M	35	32.364	104.392	2	15	10/30/76	13						
20353	M	35	32.384	104.385	2	15	10/30/76	13	22.0					
20354	M	35	32.389	104.360	2	15	10/30/76	14	22.0					
20355	M	35	32.391	104.360	2	15	10/30/76	14	22.0					
20356	M	35	32.391	104.359	2	15	10/30/76	14	22.0					
20357	M	35	32.409	104.406	2	15	10/30/76	14	22.0					
20358	M	35	32.408	104.404	2	15	10/30/76	14	22.0					
20359	M	35	32.414	104.352	2	11	10/30/76	15		17.0			6.9	610
20360	M	35	32.412	104.322	2	11	10/30/76	15		16.0			6.9	600
20362	M	35	32.372	104.266	2	15	10/30/76	16	20.0					
20363	M	35	32.374	104.258	2	15	10/30/76	16	20.0					
20366	M	35	32.256	104.255	2	15	10/31/76	10	20.0					
20368	M	35	32.257	104.310	2	15	10/31/76	10	20.0					
20369	H	35	32.267	104.308	2	97	10/31/76	10	20.0					
20371	M	35	32.282	104.447	2	15	10/31/76	11	20.0					
20372	M	35	32.327	104.486	2	15	10/31/76	11	20.0					
20373	M	35	32.303	104.454	2	15	10/31/76	11	20.0					
20374	M	35	32.301	104.455	2	15	10/31/76	11	20.0					
20375	M	35	32.281	104.461	2	15	10/31/76	12	22.0					
20376	M	35	32.274	104.490	2	15	10/31/76	12	22.0					
20377	M	35	32.271	104.487	2	15	10/31/76	12	22.0					
20378	M	35	32.296	104.547	2	15	10/31/76	12	22.0					
20379	M	35	32.297	104.546	2	15	10/31/76	12	22.0					
20381	M	35	32.309	104.644	2	15	10/31/76	13	22.0					
20382	M	35	32.307	104.645	2	15	10/31/76	13	22.0					
20384	M	35	32.297	104.653	2	15	10/31/76	13	20.0					
20385	M	35	32.296	104.654	2	15	10/31/76	13	20.0					
20386	M	35	32.255	104.731	2	15	10/31/76	14	16.0					
20387	M	35	32.257	104.724	2	15	10/31/76	14	16.0					
20388	M	35	32.253	104.719	2	15	10/31/76	14	16.0					
20389	M	35	32.262	104.709	2	15	10/31/76	14	16.0					
20390	M	35	32.256	104.684	2	15	10/31/76	14	16.0					
20391	M	35	32.264	104.656	2	15	10/31/76	15	16.0					
20393	M	35	32.274	104.627	2	15	10/31/76	15	16.0					
20394	M	35	32.272	104.599	2	15	10/31/76	15	16.0					
20395	M	35	32.272	104.596	2	15	10/31/76	15	15.0					
20396	M	35	32.200	104.773	2	15	10/31/76	16	14.0					
20397	M	35	32.182	104.789	2	15	10/31/76	16	14.0					
20398	M	35	32.196	104.813	2	15	10/31/76	16	12.0					
20399	M	35	32.199	104.813	2	15	10/31/76	16	12.0					
20400	M	35	32.214	104.777	2	15	10/31/76	16	12.0					
20401	M	35	32.244	104.751	2	15	10/31/76	17	12.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CANT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
20334	1	6	1	7	4	6			2	1	2.10	<2	3.98	25
20335	1	3	1	7	5	6			2	1	2.10	<2	3.40	<10
20337	1	9	1	7	4	6			2	1	1.40	<2	2.21	21
20339	1	7	1	7	5	7			2	1	2.30	<2	4.57	35
20340	1	9	1	7	5	6			2	1	1.70	<2	3.08	14
20341	1	4	1	7		6			2	1	1.60	<2	2.22	<10
20342	1	9	1	7	5	6	1	2	2	1	2.00	<2	4.64	18
20343	1	6	1	6	4	6			2	1	2.00	<2	3.54	21
20345	1	6	1	6	5	4			2	1	2.00	<2	4.19	21
20347	1	6	1	7	4	4			2	1	1.60	<2	1.82	<10
20348	1	7	1	7	4	6			2	1	2.30	<2	4.58	34
20350	1	12	1	7	5	6			2	1	2.10	<2	4.73	28
20351	1	8	1	7	4	6			2	1	2.50	<2	4.58	26
20352	1	3	1	7	4	6			2	1	2.20	<2	3.94	20
20353	1	6	1	7	4	6			2	1	2.50	<2	3.67	21
20354	1	6	1	7	4	6			2	1	2.30	<2	3.90	25
20355	1	12	1	7	4	6			2	1	2.60	<2	4.20	23
20356	1	6	1	7	4	6			2	1	2.40	<2	3.67	25
20357	1	8	1	7	5	6			2	1	2.50	<2	4.03	16
20358	1	8	1	7	5	6			2	1	2.70	<2	4.04	23
20359	1	11	1	7	6	7	3	1	2	1	2.60	<2	3.55	24
20360	1	11	1	7	6	7	3	1	2	1	2.50	<2	3.64	22
20362	1	4	1	7	4	6			2	1	2.10	<2	3.18	12
20363	1	3	1	7	4	6			2	1	2.40	<2	3.40	17
20366	1	11	1	7	5	6			2	1	2.30	<2	5.49	28
20368	1	11	1	7	5	6			2	1	2.50	<2	4.73	29
20369	1	9	1	7	5	6			2	1	2.40	<2	4.03	26
20371	1	4	1	7	4	6			2	1	2.50	<2	4.49	26
20372	1	4	1	7	4	6			2	1	2.10	<2	3.58	20
20373	1	4	1	7	4	6			2	1	2.70	<2	4.67	20
20374	1	4	1	7	4	6			2	1	2.00	<2	2.95	12
20375	1	4	1	7	4	6			2	1	2.10	<2	3.24	10
20376	1	6	1	7	4	6			2	1	2.40	<2	3.56	21
20377	1	6	1	7	4	6			2	1	2.10	<2	2.84	11
20378	1	12	1	7	4	6			2	1	2.10	<2	3.87	21
20379	1	12	1	7	4	6			2	1	2.30	<2	4.31	23
20381	1	8	1	7	4	6			2	1	2.00	<2	4.00	20
20382	1	8	1	7	4	6			2	1	2.00	<2	3.62	17
20384	1	12	1	7	4	6			2	1	2.10	<2	4.39	18
20385	1	11	1	7	4	6			2	1	2.20	<2	4.36	20
20386	1	16	1	7	4	6			4	1	3.10	<2	4.28	20
20387	1	16	1	7	4	6			4	1	2.70	<2	4.31	18
20388	1	14	1	7	4	6			4	1	2.60	<2	4.74	15
20389	1	8	1	7	4	6			4	1	1.80	2	3.51	18
20390	1	9	1	7	4	6			3	1	2.00	<2	3.20	19
20391	1	9	1	7	4	6			3	1	1.50	<2	3.77	20
20393	1	3	1	7	4	6			3	1	2.20	<2	5.03	26
20394	1	9	1	7	4	6			2	1	2.30	<2	4.61	26
20395	1	9	1	7	4	6			2	1	2.40	<2	4.67	23
20396	1	14	1	7	5	6			3	1	1.60	<2	3.56	14
20397	1	16	1	7	5	6			3	1	1.40	<2	3.21	14
20398	1	9	1	7	4	6			3	1	1.60	<2	3.32	15
20399	1	6	1	7	4	6			3	1	2.10	<2	5.36	21
20400	1	6	1	7	4	6			3	1	2.10	<2	5.15	18
20401	1	4	1	7	4	6			3	1	1.40	<2	2.77	11

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
20334	371	1	11.17	38	5	26	22	1.78	<15	1.17	19	39	1.43	284	<4
20335	279	1	9.82	26	4	20	19	1.36	<15	1.18	14	34	1.56	269	<4
20337	261	1	13.02	21	<4	14	14	0.83	<15	0.75	10	22	0.88	158	<4
20339	289	1	6.96	36	5	28	22	1.84	<15	1.64	18	51	2.08	393	<4
20340	415	1	3.69	30	<4	16	16	1.03	<15	1.40	14	17	0.41	179	<4
20341	479	<1	2.80	22	<4	10	13	0.90	<15	1.05	11	14	0.26	134	<4
20342	517	1	9.42	37	6	25	25	1.85	<15	1.43	19	30	0.98	330	<4
20343	472	1	5.41	34	5	19	21	1.46	<15	1.32	17	21	0.68	258	<4
20345	477	1	6.10	39	4	20	24	1.62	<15	1.47	18	27	0.96	327	<4
20347	219	<1	15.84	16	<4	10	17	0.71	<15	0.61	6	22	0.67	145	<4
20348	450	1	6.48	40	6	26	25	1.81	26	1.52	21	40	1.36	413	<4
20350	445	1	3.10	41	5	24	26	1.76	<15	1.78	21	29	0.96	246	<4
20351	408	1	3.54	41	5	30	26	1.81	<15	1.60	20	25	1.07	338	<4
20352	410	1	4.49	31	4	23	21	1.36	<15	1.61	16	31	1.28	230	<4
20353	390	1	3.09	38	4	26	22	1.40	<15	1.38	19	24	1.13	255	<4
20354	398	1	3.17	34	5	26	23	1.54	16	1.52	18	26	0.91	287	<4
20355	421	1	2.38	39	4	27	16	1.65	<15	1.78	20	27	0.84	314	<4
20356	392	1	2.93	37	4	25	14	1.48	<15	1.48	18	25	0.69	255	<4
20357	410	1	2.21	44	5	27	16	1.62	<15	1.62	21	25	0.82	308	<4
20358	412	1	2.04	40	4	27	14	1.64	<15	1.63	20	25	0.86	306	<4
20359	529	1	8.06	30	4	22	12	1.31	<15	1.17	16	25	1.26	229	<4
20360	541	1	7.27	33	4	23	13	1.33	<15	1.25	16	30	1.17	238	<4
20362	352	1	3.73	31	4	19	12	1.10	<15	1.36	15	23	1.26	199	<4
20363	355	1	4.62	26	<4	22	12	1.26	<15	1.32	15	25	1.56	246	<4
20366	407	1	5.03	57	7	33	20	2.36	<15	1.67	27	31	0.99	437	<4
20368	409	1	3.88	43	6	29	17	1.97	<15	1.54	22	30	1.45	406	<4
20369	393	1	3.38	39	5	25	13	1.65	15	1.55	20	26	1.13	326	<4
20371	406	1	6.75	39	5	30	19	1.75	38	1.45	20	36	1.93	338	<4
20372	386	1	4.89	29	4	19	13	1.20	35	1.44	15	27	0.92	257	<4
20373	430	1	3.66	47	6	28	17	1.85	<15	1.48	24	33	1.33	493	<4
20374	314	1	8.45	25	<4	20	12	1.12	<15	1.06	11	25	2.53	223	<4
20375	336	1	5.70	30	4	21	13	1.24	16	1.17	14	25	1.60	239	<4
20376	532	1	4.15	37	4	24	14	1.37	29	1.38	17	24	1.27	266	<4
20377	279	1	5.99	26	<4	20	12	1.11	<15	1.06	12	22	2.09	216	<4
20378	288	1	5.67	37	4	22	15	1.37	<15	1.33	17	25	1.16	241	<4
20379	359	1	5.69	39	5	25	13	1.57	<15	1.61	19	36	1.18	318	<4
20381	403	1	4.17	33	4	20	10	1.33	<15	1.61	16	28	0.92	250	<4
20382	413	1	3.65	27	<4	17	9	1.15	<15	1.61	15	23	0.69	210	<4
20384	431	1	3.40	41	6	24	12	1.68	<15	1.55	21	25	0.59	338	<4
20385	444	1	3.60	42	5	24	12	1.69	<15	1.55	22	24	0.58	305	<4
20386	468	1	1.47	39	4	24	9	1.56	<15	1.85	20	25	0.73	284	<4
20387	443	1	1.72	46	5	25	11	1.61	<15	1.65	23	24	0.82	308	<4
20388	479	1	1.42	41	5	25	11	1.66	<15	1.92	21	27	0.71	331	<4
20389	416	1	1.92	39	4	22	8	1.13	<15	1.53	18	21	0.60	217	<4
20390	343	1	7.09	33	<4	19	9	1.10	<15	1.18	16	23	1.66	216	<4
20391	382	1	3.61	33	5	21	10	1.28	<15	1.29	16	22	1.04	259	<4
20393	437	1	2.79	48	6	28	15	1.84	20	1.51	22	31	1.38	343	<4
20394	424	1	6.51	44	4	27	15	1.70	17	1.35	20	30	1.42	262	<4
20395	419	1	6.88	38	5	26	15	1.71	<15	1.41	16	32	1.38	271	<4
20396	462	1	0.25	25	<4	14	8	0.87	<15	1.56	12	18	0.16	202	<4
20397	445	1	0.21	32	<4	14	7	0.82	<15	1.44	13	17	0.15	204	<4
20398	403	1	8.42	20	<4	15	8	1.06	<15	1.15	9	19	1.24	196	<4
20399	467	1	6.32	42	6	27	16	2.02	<15	1.48	21	28	1.54	393	<4
20400	450	1	6.18	43	7	27	16	1.97	<15	1.43	21	28	1.56	384	<4
20401	394	<1	4.43	10	<4	8	5	0.65	<15	1.41	5	15	1.19	116	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
20334	C.49	13	16	613	16	5	599	4	1861	42	13	62	65
20335	C.43	11	10	467	<10	4	680	<2	1595	34	11	55	64
20337	C.31	10	7	269	<10	3	952	8	1106	23	7	43	43
20339	0.51	9	17	676	19	5	234	5	1947	43	13	137	70
20340	0.62	7	9	222	12	3	119	11	1504	28	8	44	53
20341	C.42	6	6	132	<10	2	95	9	1346	32	7	36	44
20342	0.45	10	16	571	<10	5	198	10	1933	49	13	68	67
20343	0.57	10	13	343	11	3	175	5	1861	42	10	51	63
20345	0.69	12	14	435	10	4	213	<2	1953	46	11	54	64
20347	0.29	9	8	227	<10	2	998	2	879	20	6	37	32
20348	0.57	9	17	717	23	5	235	9	1957	44	13	77	71
20350	0.75	7	17	797	11	5	174	5	2025	41	12	71	66
20351	C.57	9	16	442	18	5	154	5	2205	45	13	72	74
20352	0.69	8	12	356	12	4	155	7	1845	35	10	56	67
20353	C.60	9	14	287	16	4	141	8	2014	38	11	56	74
20354	0.56	8	13	327	14	4	142	<2	1987	39	11	57	71
20355	C.67	8	12	359	15	4	141	6	2215	42	12	46	75
20356	0.51	8	11	295	14	4	137	6	1925	39	10	44	73
20357	C.60	9	12	361	14	4	135	5	2020	42	12	48	80
20358	0.64	9	12	342	<10	4	136	<2	2284	40	12	48	77
20359	0.52	10	10	272	<10	4	190	5	1799	42	10	42	59
20360	0.55	9	10	292	<10	4	180	8	1823	43	10	43	61
20362	C.55	7	10	244	<10	3	119	8	1508	29	9	35	56
20363	0.51	5	9	339	<10	3	132	3	1661	33	10	41	55
20366	0.36	12	18	523	10	6	115	8	2394	52	17	70	82
20368	0.46	9	17	456	12	5	118	3	2228	46	14	56	78
20369	C.50	8	13	385	<10	4	109	4	2109	39	12	45	72
20371	0.56	9	16	441	16	5	150	10	1952	43	13	62	67
20372	C.58	7	11	365	18	3	124	9	1636	29	10	44	58
20373	C.59	11	14	566	13	5	132	9	2212	43	14	63	74
20374	0.39	7	8	230	14	3	124	4	1233	29	9	34	42
20375	0.45	7	10	252	<10	3	120	5	1467	32	9	42	51
20376	0.51	9	11	293	13	3	142	11	1767	35	10	44	64
20377	0.39	7	10	229	<10	3	120	5	1261	29	8	36	44
20378	0.56	9	13	341	16	4	127	4	1685	34	11	54	60
20379	0.60	10	12	442	14	4	128	4	1819	38	12	45	63
20381	0.64	8	11	308	10	4	109	3	1676	31	11	37	65
20382	0.65	6	8	250	<10	3	107	4	1642	29	9	34	60
20384	C.54	8	12	261	12	4	96	8	2039	39	13	45	70
20385	0.56	9	13	269	<10	4	97	7	2139	42	13	44	70
20386	0.83	10	9	212	11	4	140	5	2570	41	11	43	75
20387	0.69	10	12	255	16	4	139	11	2317	42	12	44	73
20388	C.84	9	13	282	10	4	141	5	2322	41	13	51	72
20389	0.59	8	16	217	14	3	129	9	1611	32	9	41	54
20390	0.41	8	10	338	<10	3	189	12	1464	29	10	32	53
20391	0.42	8	10	273	16	3	141	4	1507	29	10	35	47
20393	0.56	9	12	378	27	5	137	8	1968	38	12	54	60
20394	0.55	11	13	383	31	4	131	9	1985	38	12	50	63
20395	0.55	8	15	382	18	4	128	5	1985	37	11	46	62
20396	C.63	4	5	147	13	3	104	5	1194	22	7	21	37
20397	0.50	5	7	123	<10	2	93	2	1028	20	6	15	35
20398	0.52	7	9	222	10	3	180	<2	1449	25	8	25	44
20399	0.55	10	16	432	16	5	167	<2	2038	43	14	52	64
20400	0.52	9	14	421	19	5	160	3	1997	41	14	52	61
20401	0.53	<4	3	123	<10	1	137	<2	915	15	5	16	29

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEN	CCMM	MEAS	PH	CT-F
20402	M	35	32.252	104.823	2	15	10/31/76	17	12.0					
20403	M	35	32.269	104.813	2	15	10/31/76	17	12.0					
20404	H	35	32.255	104.867	2	97	10/31/76	17	12.0					
20406	H	35	32.297	104.845	2	97	11/01/76	7	8.0					
20407	M	35	32.317	104.847	2	15	11/01/76	7	8.0					
20408	M	35	32.293	104.866	2	15	11/01/76	7	8.0					
20409	M	35	32.297	104.867	2	15	11/01/76	7	8.0					
20411	M	35	32.437	104.910	2	15	11/01/76	9	12.0					
20412	M	35	32.434	104.909	2	15	11/01/76	9	12.0					
20413	M	35	32.426	104.922	2	15	11/01/76	9	12.0					
20414	M	35	32.432	104.947	2	15	11/01/76	9	12.0					
20415	H	35	32.427	104.946	2	97	11/01/76	9	12.0					
20416	M	35	32.418	104.957	2	15	11/01/76	10	14.0					
20419	M	35	32.425	104.970	2	15	11/01/76	10	14.0					
20419	M	35	32.428	104.977	2	15	11/01/76	10	14.0					
20420	M	35	32.398	104.961	2	15	11/01/76	11	16.0					
20421	M	35	32.351	104.782	2	15	11/01/76	11	16.0					
20422	M	35	32.351	104.784	2	15	11/01/76	11	16.0					
20423	M	35	32.353	104.783	2	15	11/01/76	11	16.0					
20424	M	35	32.359	104.782	2	15	11/01/76	12	16.0					
20425	M	35	32.376	104.819	2	15	11/01/76	12	16.0					
20426	M	35	32.378	104.818	2	15	11/01/76	12	16.0					
20427	M	35	32.383	104.842	2	15	11/01/76	12	16.0					
20428	H	35	32.397	104.853	2	97	11/01/76	12	16.0					
20429	M	35	32.410	104.846	2	15	11/01/76	13	16.0					
20431	H	35	32.394	104.808	2	96	11/01/76	13	16.0					
20432	M	35	32.395	104.887	2	15	11/01/76	13	16.0					
20433	M	35	32.375	104.897	2	15	11/01/76	14	16.0					
20434	H	35	32.359	104.897	2	97	11/01/76	14	16.0					
20435	M	35	32.354	104.849	2	15	11/01/76	14	16.0					
20436	M	35	32.331	104.839	2	15	11/01/76	14	16.0					
20437	M	35	32.329	104.834	2	15	11/01/76	14	16.0					
20439	M	35	32.341	104.937	2	15	11/02/76	7	10.0					
20440	M	35	32.339	104.940	2	15	11/02/76	7	10.0					
20441	M	35	32.331	104.918	2	15	11/02/76	7	12.0					
20443	M	35	32.321	104.874	2	15	11/02/76	8	14.0					
20444	M	35	32.328	104.895	2	15	11/02/76	8	14.0					
20445	H	35	32.311	104.908	2	97	11/02/76	8	14.0					
20446	M	35	32.261	104.989	2	15	11/02/76	10	22.0					
20447	M	35	32.236	104.983	2	15	11/02/76	10	22.0					
20448	M	35	32.291	104.977	2	15	11/02/76	10	22.0					
20449	H	35	32.232	104.962	2	97	11/02/76	10	22.0					
20450	M	35	32.274	104.951	2	15	11/02/76	10	22.0					
20451	M	35	32.258	104.938	2	15	11/02/76	10	22.0					
20452	H	35	32.238	104.916	2	97	11/02/76	11	24.0					
20453	M	35	32.209	104.918	2	15	11/02/76	11	24.0					
20454	M	35	32.222	104.943	2	15	11/02/76	11	24.0					
20455	M	35	32.181	104.909	2	15	11/02/76	12	24.0					
20456	M	35	32.174	104.906	2	15	11/02/76	12	24.0					
20457	M	35	32.171	104.908	2	15	11/02/76	12	24.0					
20458	M	35	32.162	104.895	2	15	11/02/76	13	24.0					
20459	M	35	32.161	104.855	2	15	11/02/76	13	24.0					
20460	M	35	32.213	104.999	2	15	11/02/76	13	24.0					
20461	M	35	32.197	104.960	2	15	11/02/76	13	24.0					
20462	M	35	32.181	104.951	2	15	11/02/76	14	24.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
20402	1	6	1	7	4	6			3	1	2.30	<2	4.20	18
20403	1	6	1	7	4	6			3	1	2.20	<2	4.33	17
20404	1	6	1	7	5	6			3	1	2.50	<2	5.39	16
20406	1	11	1	7	4	6			3	1	2.00	<2	3.98	15
20407	1	17	1	7	4	6			3	1	2.50	<2	4.47	12
20408	1	17	1	7	4	6			3	1	2.60	<2	6.03	17
20409	1	16	1	7	4	6			3	1	2.20	<2	4.32	14
20411	1	11	1	7	4	6			3	1	2.50	<2	5.22	16
20412	1	11	1	7	4	6			3	1	2.40	<2	4.86	15
20413	1	11	1	7	4	6			3	1	2.80	<2	5.41	19
20414	1	9	1	7	4	6			3	1	3.10	<2	6.26	14
20415	1	8	1	7	5	6			3	1	2.90	<2	5.10	16
20416	1	9	1	7	4	6			3	1	2.50	<2	5.38	12
20418	1	6	1	7	4	6			3	1	3.00	<2	5.39	15
20419	1	6	1	7	4	6			3	1	2.60	<2	5.48	15
20420	1	9	1	7	4	6			3	1	2.70	<2	5.46	13
20421	1	8	1	7	4	6			4	1	2.40	<2	4.91	15
20422	1	6	1	7	4	6			4	1	2.70	<2	6.22	20
20423	1	8	1	7	4	6			4	1	2.30	<2	4.98	14
20424	1	8	1	7	4	6			4	1	2.50	<2	5.70	17
20425	1	9	1	7	4	6			4	1	2.60	<2	5.12	13
20426	1	6	1	7	4	6			4	1	2.60	<2	5.48	<10
20427	1	6	1	7	4	6			3	1	2.70	<2	5.56	<10
20428	1	9	1	7	5	6			3	1	3.20	<2	4.96	13
20429	1	11	1	7	4	6			3	1	2.50	<2	6.07	21
20431	1	14	1	7	5	6			3	1	2.50	<2	4.59	12
20432	1	9	1	7	4	6			3	1	2.30	<2	4.25	<10
20433	1	9	1	7	4	6			3	1	2.50	<2	5.67	10
20434	1	16	1	7	4	6			3	1	2.70	<2	5.92	<10
20435	1	14	1	7	4	6			3	1	2.60	<2	5.23	<10
20436	1	6	1	7	4	6			4	1	2.60	<2	4.94	<10
20437	1	9	1	7	4	6			4	1	2.40	<2	4.85	10
20439	1	8	1	7	4	6			2	1	2.50	<2	5.69	<10
20440	1	9	1	7	4	6			2	1	2.50	<2	5.53	<10
20441	1	3	1	7	4	6			2	1	2.20	<2	5.12	11
20443	1	8	1	7	4	6			3	1	2.40	<2	4.80	11
20444	1	6	1	7	4	6			3	1	2.30	<2	4.97	11
20445	1	12	1	7	5	6			2	1	2.30	<2	5.43	<10
20446	1	14	1	7	4	6			2	1	2.00	<2	3.38	13
20447	1	12	1	7	4	6			2	1	2.20	<2	3.57	16
20448	1	3	1	7	4	6			2	1	2.20	<2	3.50	20
20449	1	6	1	7	5	6			2	1	2.00	<2	3.53	16
20450	1	6	1	7	4	7			2	1	2.30	<2	2.87	<10
20451	1	1	1	7	4	7			2	1	2.00	<2	3.68	11
20452	1	11	1	7	5	6			2	1	2.30	<2	4.60	13
20453	1	3	1	7	4	6			2	1	2.10	<2	3.74	12
20454	1	4	1	7	4	6			2	1	2.20	<2	3.59	11
20455	1	6	1	7	4	6			2	1	2.20	<2	3.42	10
20456	1	11	1	7	4	6			2	1	2.20	<2	3.70	11
20457	1	8	1	7	4	6			2	1	2.00	<2	3.01	14
20458	1	6	1	7	4	6			2	1	2.20	<2	3.58	12
20459	1	3	1	7	4	6			2	1	2.20	<2	4.00	14
20460	1	4	1	7	4	6			4	1	2.30	<2	4.06	10
20461	1	4	1	7	4	6			4	1	2.40	<2	4.61	16
20462	1	6	1	7	4	6			3	1	1.70	<2	2.68	10

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CC	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
20402	490	1	0.90	44	5	20	10	1.38	<15	1.59	20	20	0.45	259	<4
20403	499	1	0.83	37	4	20	10	1.40	<15	1.58	18	20	0.42	271	<4
20404	521	1	1.01	41	6	26	12	1.84	<15	1.84	20	28	0.54	336	<4
20406	442	1	1.08	33	4	18	9	1.33	<15	1.56	14	21	0.36	218	<4
20407	511	1	0.74	41	4	20	10	1.44	<15	1.61	18	20	0.42	295	<4
20408	544	1	1.09	57	7	31	17	2.20	16	1.79	27	27	0.69	437	<4
20409	529	1	0.92	41	4	18	9	1.37	<15	1.60	18	18	0.39	263	<4
20411	521	1	1.33	47	6	32	14	1.79	<15	1.72	21	24	0.82	360	<4
20412	520	1	1.66	42	6	31	12	1.71	<15	1.55	20	20	0.95	398	<4
20413	533	1	1.41	53	6	34	13	1.98	<15	1.70	24	24	0.89	400	<4
20414	537	1	1.46	61	8	44	17	2.49	<15	1.67	29	27	1.02	470	<4
20415	531	1	0.75	52	6	31	13	1.87	<15	1.74	24	21	0.60	396	<4
20416	524	1	1.57	56	7	36	13	2.01	<15	1.61	24	23	1.00	394	<4
20418	527	1	1.49	60	7	36	14	2.06	<15	1.61	26	23	0.98	406	<4
20419	546	1	1.26	54	7	37	14	2.09	32	1.58	26	23	0.85	401	<4
20420	541	1	1.05	58	7	31	14	2.14	<15	1.39	29	23	0.60	420	<4
20421	540	1	0.86	42	4	24	11	1.65	38	1.59	21	21	0.49	321	<4
20422	569	1	0.81	60	8	33	16	2.38	<15	1.68	30	30	0.62	447	<4
20423	534	1	1.46	52	6	24	14	1.70	<15	1.71	22	22	0.77	338	<4
20424	548	1	1.70	62	8	30	16	2.18	<15	1.57	28	24	0.90	453	<4
20425	525	1	1.50	48	6	27	13	1.94	<15	1.66	22	23	0.75	380	<4
20426	544	1	1.41	44	6	25	14	1.89	<15	1.78	21	25	0.68	372	<4
20427	530	1	1.38	47	6	28	14	2.08	<15	1.71	22	25	0.73	385	<4
20428	525	1	1.23	56	5	29	13	2.12	<15	1.47	24	20	0.63	390	<4
20429	528	1	1.09	57	6	30	17	2.18	<15	1.81	26	30	0.70	405	<4
20431	517	1	1.29	47	6	23	11	1.65	<15	1.54	22	20	0.50	295	<4
20432	505	1	1.84	34	4	20	9	1.46	<15	1.49	17	20	0.43	242	<4
20433	543	1	1.44	50	6	28	14	2.08	<15	1.66	23	24	0.74	392	<4
20434	566	1	0.48	48	7	30	14	2.22	<15	1.73	25	28	0.51	402	<4
20435	558	1	0.45	48	6	26	12	1.94	<15	1.66	24	25	0.40	412	<4
20436	536	1	1.39	54	6	28	12	1.96	<15	1.48	25	20	0.66	424	<4
20437	520	1	1.13	51	6	25	12	1.77	<15	1.51	24	21	0.56	371	<4
20439	556	1	1.92	46	5	27	13	2.10	<15	1.75	22	25	0.65	374	<4
20440	573	1	0.94	55	6	28	12	2.01	<15	1.68	25	24	0.54	377	<4
20441	582	1	1.23	47	6	23	10	1.63	<15	1.64	21	22	0.42	322	<4
20443	546	1	1.16	49	5	25	11	1.71	<15	1.62	22	20	0.65	353	<4
20444	522	1	1.23	44	5	25	12	1.70	<15	1.65	20	21	0.68	362	<4
20445	560	1	1.05	48	5	25	13	1.78	<15	1.74	22	24	0.55	310	<4
20446	434	1	7.59	33	4	19	10	1.23	<15	1.27	16	20	1.97	247	<4
20447	447	1	7.14	38	4	21	11	1.36	<15	1.30	18	21	1.89	267	<4
20448	375	1	11.04	27	4	22	13	1.25	<15	1.18	14	25	2.86	255	<4
20449	433	1	7.12	28	<4	19	9	1.16	<15	1.33	14	21	1.96	221	<4
20450	365	1	9.09	28	<4	19	7	1.08	<15	1.01	13	18	2.48	194	<4
20451	492	1	3.27	35	4	31	14	1.35	<15	1.66	18	15	0.65	243	<4
20452	446	1	6.95	44	5	28	14	1.77	<15	1.52	21	25	1.74	345	<4
20453	448	1	3.53	36	<4	19	8	1.22	<15	1.49	18	21	1.03	246	<4
20454	419	1	3.28	28	<4	18	8	1.25	<15	1.59	15	23	1.14	252	<4
20455	425	1	3.17	28	<4	17	7	1.13	<15	1.52	15	20	1.02	216	<4
20456	435	1	3.17	31	4	20	8	1.22	<15	1.45	17	22	1.06	253	<4
20457	383	1	3.18	22	<4	15	6	1.02	<15	1.57	12	22	1.14	209	<4
20458	429	1	3.01	30	<4	17	8	1.11	<15	1.54	16	22	1.00	224	<4
20459	460	1	3.14	33	4	20	9	1.25	<15	1.60	16	23	1.05	255	<4
20460	481	1	3.30	42	5	21	10	1.43	<15	1.60	19	22	0.94	292	<4
20461	469	1	4.56	43	5	25	13	1.71	<15	1.75	21	28	1.14	361	<4
20462	402	1	4.72	27	<4	12	5	0.76	<15	1.13	14	15	0.70	136	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	KA	NO	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
20402	0.62	9	11	185	27	3	112	10	1753	33	10	30	51
20403	0.65	8	9	170	19	3	115	10	1816	32	10	32	53
20404	C.77	10	11	223	13	4	130	6	2272	41	12	42	67
20406	0.50	6	9	188	12	3	101	7	1726	32	8	25	48
20407	C.70	7	10	188	15	3	111	4	1831	31	10	36	51
20408	C.78	11	13	454	23	6	132	3	2516	46	15	55	72
20409	0.77	9	9	162	16	3	110	<2	1960	30	10	33	51
20411	0.85	8	12	282	17	4	144	5	2307	40	12	45	57
20412	0.67	8	10	315	13	4	148	3	1946	37	12	47	51
20413	0.78	10	14	334	11	5	157	4	2495	45	14	52	66
20414	C.71	12	17	442	25	6	215	8	2861	55	16	65	77
20415	0.79	10	14	328	23	5	149	7	2536	43	14	47	63
20416	0.75	11	14	351	20	5	173	6	2495	46	13	54	61
20418	C.76	11	12	362	30	5	159	12	2579	48	13	54	65
20419	0.72	10	15	339	25	5	201	9	2488	47	14	56	65
20420	C.63	10	15	269	32	5	125	12	2533	46	16	52	70
20421	C.76	9	11	223	13	4	118	5	2106	36	11	38	57
20422	C.73	12	18	326	26	6	120	12	2623	52	17	57	76
20423	0.83	10	12	256	17	4	119	9	2287	38	11	44	60
20424	C.71	13	14	372	30	5	125	9	2616	47	15	55	74
20425	C.80	11	11	290	16	5	117	<2	2645	43	12	45	66
20426	C.83	9	13	292	15	4	118	3	2214	40	12	48	59
20427	0.77	8	13	328	20	5	117	4	2529	44	13	52	65
20428	0.69	10	15	246	20	5	113	9	3030	47	13	51	75
20429	C.70	11	15	346	26	6	109	3	2383	45	15	55	70
20431	0.62	9	10	227	23	4	100	9	2080	37	11	37	55
20432	C.56	8	9	193	<10	3	94	3	1854	33	10	33	48
20433	C.71	10	14	309	24	5	113	5	2315	43	14	52	64
20434	C.76	10	14	253	16	5	113	9	2542	48	14	52	71
20435	C.76	9	12	222	17	4	106	7	2561	44	13	46	64
20436	C.69	11	8	295	29	4	122	9	2576	44	13	47	66
20437	C.69	10	10	355	23	4	124	5	2242	39	12	45	61
20439	0.84	10	14	297	10	5	131	<2	2508	45	13	49	68
20440	0.83	12	12	264	18	5	134	8	2538	45	14	48	69
20441	0.87	8	9	192	15	4	134	3	2041	37	11	36	55
20443	C.76	10	9	267	15	4	122	8	2311	37	11	42	59
20444	0.72	7	11	292	16	4	117	5	1950	35	11	44	53
20445	0.82	9	13	307	13	5	129	2	2084	38	12	46	59
20446	0.62	9	9	323	11	3	260	2	1713	31	10	36	51
20447	0.66	9	9	329	15	3	250	11	1930	35	11	39	60
20448	0.63	10	9	424	11	3	277	<2	1576	31	10	43	50
20449	0.67	8	10	351	13	3	198	7	1573	28	10	37	52
20450	C.50	8	8	294	<10	3	217	7	1572	30	9	31	49
20451	C.76	8	15	271	<10	3	154	2	2059	32	10	35	57
20452	C.63	10	13	838	<10	5	197	9	2016	40	14	57	64
20453	C.70	6	8	260	<10	3	174	10	1661	29	10	31	57
20454	C.71	7	7	239	<10	3	154	5	1796	30	9	32	62
20455	0.69	7	5	214	14	3	156	7	1628	28	9	28	53
20456	0.70	7	8	215	<10	3	158	8	1638	30	9	32	54
20457	C.66	6	6	160	<10	2	133	<2	1495	24	8	26	51
20458	C.71	7	6	211	10	3	153	2	1589	27	9	28	55
20459	0.80	7	10	277	<10	3	172	5	1759	30	10	34	59
20460	C.77	10	11	371	13	4	192	10	2030	35	11	40	65
20461	0.74	10	13	508	<10	5	198	9	2167	40	12	47	68
20462	C.47	7	5	176	11	2	180	15	972	18	7	15	35

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEN	WTEN	COMM	MEAS	PH	CT-F
20463	M	35	32.191	104.950	2	15	11/02/76	14	24.C					
20464	M	35	32.237	104.983	2	15	11/02/76	14	24.C					
20465	M	35	32.249	104.964	2	15	11/02/76	15	24.C					
20466	M	35	32.247	104.962	2	15	11/02/76	15	24.C					
20467	M	35	32.241	104.956	2	15	11/02/76	16	22.C					
20468	M	35	32.241	104.949	2	15	11/02/76	16	22.C					
20469	M	35	32.247	104.697	2	12	10/31/76	11	20.C	9.0	C		6.8	600
20470	M	35	32.120	104.826	2	15	11/04/76	10	20.C					
20471	M	35	32.090	104.841	2	15	11/04/76	10	20.C					
20472	M	35	32.090	104.844	2	15	11/04/76	10	20.C					
20473	M	35	32.096	104.856	2	15	11/04/76	10	20.C					
20474	M	35	32.124	104.854	2	15	11/04/76	10	20.C					
20475	M	35	32.124	104.856	2	15	11/04/76	10	20.C					
20476	M	35	32.136	104.860	2	15	11/04/76	10	20.C					
20477	M	35	32.049	104.913	2	15	11/04/76	11	21.C					
20478	M	35	32.041	104.933	2	15	11/04/76	11	22.C					
20479	M	35	32.054	104.940	2	15	11/04/76	11	22.C					
20480	M	35	32.052	104.941	2	15	11/04/76	12	22.C					
20481	M	35	32.054	104.942	2	15	11/04/76	12	22.C					
20482	M	35	32.064	104.940	2	15	11/04/76	12	22.C					
20484	H	35	32.108	104.934	2	97	11/04/76	13	24.C					
20485	M	35	32.139	104.895	2	15	11/04/76	13	24.C					
20486	M	35	32.132	104.900	2	15	11/04/76	13	24.C					
20487	M	35	32.107	104.892	2	15	11/04/76	13	24.C					
20488	H	35	32.105	104.900	2	97	11/04/76	13	24.C					
20489	M	35	32.099	104.883	2	15	11/04/76	14	24.C					
20490	M	35	32.084	104.889	2	15	11/04/76	14	24.C					
20491	M	35	32.083	104.891	2	15	11/04/76	14	24.C					
20492	M	35	32.052	104.884	2	15	11/04/76	14	24.C					
20494	M	35	32.005	104.841	2	15	11/04/76	15	20.C					
20495	M	35	32.021	104.833	2	15	11/04/76	15	20.C					
20496	M	35	32.038	104.837	2	15	11/04/76	15	20.C					
20497	M	35	32.059	104.837	2	15	11/04/76	15	20.C					
20498	M	35	32.058	104.838	2	15	11/04/76	15	20.C					
20499	M	35	32.012	104.862	2	15	11/04/76	16	18.C					
20501	O	35	32.182	104.297	2	99	10/31/76	12	26.C		C			
20503	M	35	32.177	104.382	2	15	10/31/76	13	23.C					
20504	M	35	32.184	104.386	2	15	10/31/76	13	24.C					
20505	M	35	32.184	104.464	2	15	10/31/76	13	26.C					
20507	M	35	32.157	104.402	2	15	10/31/76	14	20.C					
20508	M	35	32.131	104.424	2	15	10/31/76	14	24.C					
20509	M	35	32.134	104.423	2	15	10/31/76	14	25.C					
20510	M	35	32.141	104.426	2	15	10/31/76	14	25.C					
20511	M	35	32.128	104.438	2	15	10/31/76	14	26.C					
20512	M	35	32.125	104.444	2	15	10/31/76	14	25.C					
20513	M	35	32.120	104.451	2	15	10/31/76	15	24.C					
20514	M	35	32.144	104.499	2	15	10/31/76	15	26.C					
20516	M	35	32.109	104.461	2	15	10/31/76	15	24.C					
20517	M	35	32.085	104.474	2	15	10/31/76	15	22.C					
20518	M	35	32.084	104.473	2	15	10/31/76	15	22.C					
20519	M	35	32.091	104.490	2	15	10/31/76	16	20.C					
20520	M	35	32.093	104.489	2	15	10/31/76	16	20.C					
20521	M	35	32.249	104.376	2	15	11/02/76	9	20.C					
20522	M	35	32.244	104.376	2	11	11/02/76	9	23.C	8.0			9.0	700
20523	M	35	32.231	104.383	2	11	11/02/76	9	23.C	9.0			9.4	550

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
20463	1	4	1	7	4	6			3	1	2.40	<2	4.98	23
20464	1	6	1	7	4	6			4	1	2.50	<2	2.93	13
20465	1	3	1	7	4	7			3	1	2.40	<2	2.89	<10
20465	1	3	1	7	4	7			3	1	2.20	<2	3.15	10
20467	1	3	1	7	4	7			3	1	2.30	<2	3.03	21
20468	1	6	1	7	4	6			3	1	2.30	<2	3.85	24
20469	1	8	1	7	4	6	3	1	4	1	2.00	<2	4.19	<10
20470	1	6	1	7	4	6			3	1	1.50	<2	4.07	20
20471	1	4	1	7	4	6			2	1	1.80	<2	3.25	18
20472	1	6	1	7	4	6			2	1	2.60	<2	3.58	17
20473	1	4	1	7	4	6			2	1	2.40	<2	5.15	26
20474	1	4	1	7	4	6			2	1	2.30	<2	4.20	14
20475	1	3	1	7	4	6			2	1	2.40	<2	3.72	21
20476	1	3	1	7	4	6			2	1	2.10	<2	3.87	18
20477	1	11	1	7	4	6			3	1	2.20	<2	4.93	13
20478	1	6	1	7	4	6			3	1	2.50	<2	5.52	23
20479	1	11	1	7	4	6			3	1	2.10	<2	3.93	13
20480	1	12	1	7	4	6			3	1	2.30	<2	4.82	22
20491	1	11	1	7	4	6			3	1	2.50	<2	4.03	13
20482	1	9	1	7	4	6			3	1	1.80	<2	3.91	13
20484	1	19	1	7	4	6			2	1	2.30	<2	5.21	24
20485	1	12	1	7	4	6			2	1	2.10	<2	4.28	24
20486	1	4	1	7	4	6			2	1	1.50	<2	3.47	19
20487	1	6	1	7	4	6			2	1	2.30	<2	5.26	25
20488	1	9	1	7					2	1	2.10	<2	4.03	18
20489	1	12	1	7	4	6			2	1	2.30	<2	4.43	24
20490	1	6	1	7	4	6			2	1	2.20	<2	4.32	21
20491	1	6	1	7	4	6			2	1	2.20	<2	3.54	15
20492	1	9	1	7	4	6			2	1	2.00	<2	3.67	15
20494	1	4	1	7	4	6			2	1	2.80	<2	5.17	31
20495	1	3	1	7	4	6			2	1	2.00	<2	3.13	17
20496	1	6	1	7	4	6			2	1	2.40	<2	3.99	17
20497	1	9	1	7	4	6			2	1	2.40	<2	4.45	23
20498	1	6	1	7	4	6			2	1	2.50	<2	3.73	18
20499	1	8	1	7	4	6			3	1	3.40	<2	5.01	18
20501	1	6	1	6	4	6			1	1	2.20	<2	4.71	23
20503	1	9	1	7	4	7			3	1	2.60	<2	3.80	24
20504	1	4	1	7	4	7			4	1	2.50	<2	3.62	29
20505	1	6	1	7	4	6			4	1	2.00	<2	3.77	17
20507	1	4	1	6	4	6			1	1	2.10	<2	3.58	14
20508	1	6	1	6	4	6			2	1	2.10	<2	3.82	15
20509	1	4	1	6	4	6			2	1	2.00	<2	4.36	20
20510	1	7	1	6	4	6			3	1	2.50	<2	4.07	17
20511	1	9	1	6	4	6			2	1	1.80	<2	2.61	13
20512	1	4	1	6	4	6			2	1	2.10	<2	4.03	18
20513	1	7	1	6	4	6			2	1	2.10	<2	3.99	17
20514	1	3	1	6	4	6			2	1	2.40	<2	3.56	13
20516	1	10	1	6	4	2			2	1	1.30	<2	1.96	<10
20517	1	10	1	6	4	6			2	1	2.00	<2	3.48	18
20518	1	6	1	6	4	6			2	1	2.00	<2	3.24	15
20519	1	9	1	6	4	6			2	1	1.50	<2	3.43	11
20520	1	9	1	6	4	6			2	1	2.00	<2	3.72	17
20521	1	4	1	7	4	6			3	1	2.60	<2	4.38	18
20522	1	6	1	7	5	7	2	1	3	1	2.70	<2	4.14	23
20523	1	4	1	7	5	6		1	3	1	2.50	<2	3.81	18

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
20463	500	1	3.10	46	6	28	14	1.96	<15	1.62	23	26	1.12	426	<4
20464	402	1	3.34	25	<4	14	6	1.02	<15	1.27	12	18	0.84	217	<4
20465	253	1	11.16	25	<4	20	8	1.12	<15	1.01	13	22	3.13	212	<4
20466	256	1	10.31	30	4	21	11	1.21	<15	1.00	14	21	3.06	249	<4
20467	377	1	10.34	28	<4	20	7	1.07	<15	1.20	14	22	3.14	200	<4
20468	452	1	3.28	33	<4	21	9	1.31	<15	1.70	17	24	1.12	255	<4
20469	418	<1	11.93	<10	<4	<1	<2	1.55	<15	1.42	17	11	1.26	123	<4
20470	492	1	6.47	26	<4	20	11	1.29	<15	1.67	14	27	1.12	244	<4
20471	436	1	4.37	28	<4	16	7	1.09	<15	1.59	12	25	0.64	180	<4
20472	470	1	2.71	31	<4	19	9	1.33	<15	1.76	17	25	0.94	259	<4
20473	508	1	3.05	49	6	30	14	1.86	<15	2.02	23	37	1.01	371	<4
20474	471	1	4.97	32	4	23	12	1.48	<15	1.72	18	27	1.24	277	<4
20475	441	1	3.42	35	<4	20	9	1.26	<15	1.72	18	25	1.13	245	<4
20476	520	1	3.93	34	4	17	7	1.09	<15	1.62	17	23	0.99	192	<4
20477	577	1	3.79	33	4	22	12	1.60	<15	2.06	18	28	0.82	296	<4
20478	589	1	3.31	47	6	28	14	1.99	<15	2.09	24	30	0.79	360	<4
20479	518	1	5.23	27	<4	17	9	1.20	<15	1.67	14	28	1.31	213	<4
20480	544	1	4.17	41	5	23	13	1.69	<15	1.97	20	26	1.05	345	<4
20481	515	1	6.31	35	4	19	11	1.33	<15	1.66	16	41	2.03	238	<4
20482	533	1	5.31	32	<4	16	9	1.16	<15	1.71	15	24	0.83	197	<4
20484	570	1	3.52	45	5	27	12	1.86	<15	1.87	24	27	0.84	331	<4
20485	521	1	4.53	39	4	20	10	1.40	<15	1.71	19	25	1.13	280	<4
20486	465	1	5.29	34	<4	17	9	1.01	<15	1.52	16	18	1.41	215	<4
20487	565	1	4.51	50	6	30	13	1.93	<15	2.02	24	29	1.42	404	<4
20488	472	1	5.73	27	<4	20	9	1.32	<15	1.66	15	23	1.65	248	<4
20489	490	1	3.90	36	4	23	11	1.57	<15	1.83	18	26	1.13	309	<4
20490	501	1	4.30	37	4	23	10	1.40	<15	1.81	18	25	1.21	287	<4
20491	454	1	3.20	35	<4	15	7	1.02	<15	1.84	16	21	0.94	224	<4
20492	476	1	2.97	26	<4	15	7	1.03	<15	1.75	13	20	0.84	218	<4
20494	511	1	2.02	51	6	33	14	1.94	<15	1.81	25	34	0.75	390	<4
20495	411	1	2.84	27	4	16	9	1.22	<15	1.49	13	21	1.05	255	<4
20496	487	1	1.25	35	4	21	9	1.21	<15	1.77	18	26	0.49	273	<4
20497	501	1	1.52	36	5	24	11	1.53	<15	1.85	19	30	0.52	306	<4
20498	472	1	1.35	30	<4	19	8	1.22	<15	1.66	16	23	0.52	264	<4
20499	516	1	1.21	47	4	27	13	1.85	<15	1.86	22	27	0.42	307	<4
20501	448	1	4.58	35	4	24	16	1.66	<15	1.78	16	33	1.19	316	<4
20503	1279	1	4.86	43	6	54	49	1.80	<15	1.37	21	21	0.85	346	<4
20504	336	1	6.25	35	5	29	16	1.58	29	1.28	16	26	1.95	322	<4
20505	363	1	2.48	34	<4	27	9	1.30	<15	1.34	15	22	1.08	240	<4
20507	515	1	7.73	30	<4	18	9	1.24	<15	1.34	14	18	0.50	202	<4
20508	414	1	6.59	32	4	20	11	1.36	<15	1.30	15	19	0.53	319	<4
20509	421	1	10.54	36	6	24	16	1.66	<15	1.21	17	23	0.69	378	<4
20510	436	1	6.53	31	4	23	13	1.54	<15	1.52	14	20	1.07	296	<4
20511	321	1	18.24	21	<4	17	7	1.02	<15	0.66	7	16	0.48	187	<4
20512	526	1	9.10	34	5	22	12	1.47	<15	1.24	14	19	0.67	301	<4
20513	428	1	6.55	32	4	22	12	1.42	<15	1.29	15	19	0.65	292	<4
20514	411	1	8.83	26	<4	19	9	1.34	<15	1.15	13	18	0.42	211	<4
20516	271	1	20.92	20	<4	12	5	0.72	<15	0.50	7	11	0.87	121	<4
20517	341	1	9.23	25	<4	22	11	1.31	<15	1.10	12	15	1.44	269	<4
20518	333	1	8.22	28	<4	20	11	1.18	<15	1.14	12	18	1.32	238	<4
20519	328	1	7.31	26	4	22	11	1.24	<15	1.11	13	19	1.47	256	<4
20520	421	1	7.49	28	4	23	14	1.34	<15	1.24	14	21	1.36	281	<4
20521	460	1	3.50	36	4	24	10	1.43	<15	1.55	16	25	1.29	241	<4
20522	477	1	4.26	39	5	25	12	1.41	<15	1.49	17	33	1.43	221	<4
20523	462	1	1.96	36	4	21	9	1.29	<15	1.56	15	22	0.77	232	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NR	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
20463	0.69	10	14	464	<10	5	178	3	2352	39	15	53	75
20464	0.52	6	5	216	10	2	169	3	1453	22	8	26	50
20465	0.53	9	8	354	10	3	286	6	1515	29	9	31	45
20466	0.52	10	7	382	<10	3	249	7	1585	30	10	35	50
20467	0.62	9	7	275	<10	3	246	6	1589	32	9	35	48
20468	0.90	7	8	269	<10	3	161	5	2002	33	10	33	70
20469	0.56	<4	<2	37	<10	<1	231	<2	1895	<2	<1	17	15
20470	0.83	8	8	338	11	3	223	<2	1821	31	10	26	60
20471	0.72	7	5	207	<10	3	169	<2	1830	28	9	25	59
20472	0.78	7	6	198	<10	3	141	4	2038	33	10	31	70
20473	0.91	10	13	282	20	5	181	9	2344	47	14	47	79
20474	0.82	9	11	346	<10	4	192	4	2225	36	12	35	72
20475	0.80	8	9	228	11	3	158	5	1984	32	10	31	72
20476	0.90	10	9	202	<10	3	221	5	1752	29	10	25	59
20477	1.07	9	10	321	<10	4	224	<2	2146	37	12	40	68
20478	1.07	10	12	276	11	5	214	4	2626	46	14	47	84
20479	0.78	6	7	323	13	3	285	6	1684	34	10	32	55
20480	0.96	10	12	444	14	4	199	4	2259	40	12	47	72
20481	0.71	10	9	360	<10	4	377	4	1743	46	11	34	62
20482	0.85	8	7	284	10	3	249	9	1707	30	10	29	58
20484	0.97	11	13	296	16	5	221	9	2331	43	14	45	78
20485	0.85	11	12	311	12	4	225	<2	2001	35	11	33	72
20486	0.72	8	10	234	14	3	175	5	1495	25	9	26	52
20487	0.96	12	14	410	17	5	211	8	2749	45	14	47	94
20488	0.83	8	10	298	<10	3	210	<2	2013	32	11	31	67
20489	0.88	10	11	334	12	4	188	6	2366	38	12	35	81
20490	0.90	9	8	272	19	3	194	7	2074	33	11	33	71
20491	0.74	7	9	189	10	3	145	10	1511	24	9	24	50
20492	0.82	6	8	215	<10	3	153	4	1465	23	8	27	52
20494	0.85	10	16	308	23	5	163	9	2355	48	14	51	83
20495	0.64	5	11	146	19	2	114	3	1059	26	8	33	45
20496	0.95	6	8	160	15	3	131	6	1590	31	9	32	55
20497	0.92	8	13	246	15	4	161	<2	2207	39	11	46	74
20498	0.82	5	11	137	16	3	129	5	1786	31	9	32	63
20499	0.85	10	9	192	23	4	151	6	3146	54	11	41	101
20501	0.51	9	10	376	14	4	147	<2	2107	42	10	39	67
20503	0.55	11	14	855	487	4	155	12	2422	41	12	1423	79
20504	0.51	9	12	644	22	4	136	2	1853	41	10	65	65
20505	0.47	7	9	248	12	3	105	6	1751	38	8	27	56
20507	0.54	8	9	276	22	3	161	5	1942	39	9	31	62
20508	0.47	8	9	361	17	3	142	7	1886	36	9	35	62
20509	0.37	11	11	546	23	4	169	3	2098	43	12	45	67
20510	0.54	9	11	444	62	3	137	<2	2264	43	10	44	70
20511	0.21	9	7	213	<10	2	232	5	1376	39	7	22	48
20512	0.45	9	12	396	<10	3	165	11	2015	40	11	36	67
20513	0.51	7	10	348	18	3	143	7	2074	37	10	35	68
20514	0.52	9	8	266	<10	3	144	7	2268	40	9	28	76
20516	0.22	5	5	116	<10	2	310	4	983	21	9	15	37
20517	0.43	8	7	436	<10	3	212	<2	1939	37	9	30	64
20518	0.43	7	11	429	10	3	176	5	1725	34	9	30	60
20519	0.38	8	9	328	<10	3	138	5	1665	32	9	30	55
20520	0.42	9	9	461	14	3	148	3	1794	34	10	38	60
20521	0.69	8	14	339	14	3	134	5	2165	40	9	32	71
20522	0.63	8	16	380	23	3	139	8	2050	41	9	34	73
20523	0.55	6	7	264	17	3	107	5	2000	38	8	25	63

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	COMM	MEAS	PH	CT-F
20524	O	35	32.221	104.360	2	99	11/02/76	10	25.0		C			
20525	M	35	32.212	104.389	2	15	11/02/76	10	26.0					
20526	M	35	32.207	104.409	2	11	11/02/76	10	26.0	9.0			9.1	450
20527	M	35	32.209	104.419	2	15	11/02/76	10	26.0					
20528	O	35	32.247	104.406	2	99	11/02/76	11	28.0		C			
20529	M	35	32.242	104.402	2	15	11/02/76	11	27.0					
20530	M	35	32.243	104.405	2	15	11/02/76	11	28.0					
20531	H	35	32.002	104.455	2	97	11/04/76	10	24.0		C			
20532	M	35	32.011	104.401	2	15	11/04/76	11	26.0					
20533	M	35	32.018	104.403	2	15	11/04/76	11	27.0					
20534	M	35	32.037	104.394	2	15	11/04/76	11	26.0					
20535	M	35	32.036	104.395	2	15	11/04/76	11	26.0					
20536	M	35	32.024	104.354	2	15	11/04/76	12	24.0					
20537	M	35	32.022	104.354	2	15	11/04/76	12	25.0					
20538	M	35	32.037	104.310	2	11	11/04/76	12	27.0		C		7.3	2600
20539	M	35	32.031	104.300	2	15	11/04/76	13	27.0					
20540	M	35	32.030	104.290	2	15	11/04/76	13	27.0					
20541	H	35	32.038	104.279	2	97	11/04/76	13	26.0					
20542	M	35	32.043	104.268	2	15	11/04/76	13	26.0					
20543	M	35	32.050	104.269	2	15	11/04/76	13	26.0					
20544	M	35	32.048	104.339	2	11	11/04/76	14	27.0	14.5			6.6	2500
20545	M	35	32.087	104.316	2	12	11/04/76	14	24.0	13.0			7.3	2800
20546	M	35	32.090	104.358	2	11	11/04/76	14	24.0	13.0			7.4	3000
20547	M	35	32.105	104.286	2	15	11/04/76	15	23.0					
20549	M	35	32.105	104.265	2	15	11/04/76	15	23.0					
20551	M	35	32.148	104.783	2	15	11/05/76	7	8.0					
20552	M	35	32.148	104.775	2	15	11/05/76	7	8.0					
20553	M	35	32.151	104.762	2	15	11/05/76	7	8.0					
20554	M	35	32.016	104.769	2	15	11/05/76	8	12.0					
20555	M	35	32.017	104.764	2	15	11/05/76	8	12.0					
20556	M	35	32.032	104.751	2	15	11/05/76	9	14.0					
20557	M	35	32.035	104.751	2	15	11/05/76	9	14.0					
20558	M	35	32.056	104.786	2	15	11/05/76	10	16.0		C			
20559	M	35	32.071	104.766	2	15	11/05/76	10	16.0		C			
20560	M	35	32.093	104.776	2	15	11/05/76	10	16.0					
20561	M	35	32.099	104.772	2	15	11/05/76	10	16.0					
20562	M	35	32.105	104.751	2	15	11/05/76	11	18.0					
20564	M	35	32.119	104.725	2	15	11/05/76	12	20.0					
20565	M	35	32.124	104.721	2	15	11/05/76	12	20.0					
20567	M	35	32.131	104.712	2	15	11/05/76	13	20.0					
20568	M	35	32.139	104.702	2	15	11/05/76	13	20.0					
20569	M	35	32.144	104.686	2	15	11/05/76	13	20.0					
20570	M	35	32.147	104.744	2	15	11/05/76	14	20.0					
20571	M	35	32.181	104.741	2	15	11/05/76	14	20.0					
20574	M	35	32.182	104.700	2	15	11/05/76	15	18.0					
20575	M	35	32.164	104.710	2	15	11/05/76	15	18.0					
20578	M	35	32.188	104.665	2	15	11/06/76	10	18.0					
20579	M	35	32.186	104.665	2	15	11/06/76	10	18.0					
20581	M	35	32.170	104.663	2	15	11/06/76	11	18.0					
20582	M	35	32.182	104.632	2	15	11/06/76	11	18.0					
20584	M	35	32.171	104.625	2	15	11/06/76	12	20.0					
20585	M	35	32.171	104.598	2	15	11/06/76	12	20.0					
20586	M	35	32.173	104.598	2	15	11/06/76	12	20.0					
20589	M	35	32.222	104.565	2	15	11/06/76	13	20.0					
20590	M	35	32.237	104.563	2	15	11/06/76	13	20.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
20524	1	4	1	7	4	6			3	1	2.80	<2	4.87	29
20525	1		1	7	4	6			3	1	2.40	<2	3.58	20
20526	1	6	1	7	5	6		1	3	1	2.20	<2	4.07	21
20527	1	6	1	7	4	6			3	1	2.60	<2	3.38	13
20528	1		1	7	4	6			2	1	2.30	<2	4.18	19
20529	1	4	1	7	4	7			2	1	2.20	<2	3.78	23
20530	1		1	7	4	7			3	1	2.30	<2	4.58	23
20531	1	12	1	7	4	7			2	1	2.80	<2	3.00	<10
20532	1	4	1	7	4	7			2	1	1.00	<2	1.34	<10
20533	1	4	1	7	4	2			2	1	1.00	<2	1.45	<10
20534	1	6	1	7	4	6			2	1	4.70	<2	4.99	45
20535	1	4	1	7	4	6			2	1	2.20	<2	4.62	12
20536	1	6	1	7	4	6			2	1	2.10	<2	4.95	14
20537	1	4	1	7	4	7			2	1	1.20	<2	2.21	<10
20538	1	7	1	7	5	9	3	1	2	1	0.60	<2	0.52	<10
20539	1	3	1	7	4	6			2	1	1.10	<2	1.14	<10
20540	1	4	1	7	4	6			2	1	2.30	<2	2.49	<10
20541	1	13	1	7	4	7			2	1	2.40	<2	4.38	20
20542	1	9	1	7	4	6			2	1	2.50	<2	2.25	<10
20543	1	12	1	7	4	6			2	1	1.40	<2	2.62	<10
20544	1	4	1	7	5	7			3	1	0.50	<2	0.74	<10
20545	1	3	1	2	5		2	1	2	1	0.50	<2	1.02	<10
20546	1	4	1	7	4	8	2	1	2	1	0.70	<2	0.73	<10
20547	1	9	1	7	4	6			2	1	2.30	<2	4.40	24
20549	1	4	1	7	4	6			2	1	1.40	<2	2.49	<10
20551	1	4	1	7	4	6			2	1	2.70	<2	5.37	20
20552	1	6	1	7	4	6			2	1	2.50	<2	4.74	16
20553	1	9	1	7	4	6			2	1	2.70	2	4.58	13
20554	1	12	1	7	4	6			3	1	3.00	<2	3.86	25
20555	1	11	1	7	4	6			3	1	2.60	<2	4.83	37
20556	1	16	1	7	4	6			3	1	2.70	<2	3.94	18
20557	1	16	1	7	4	6			3	1	2.70	<2	3.59	30
20558	1	4	1	7	4	6			3	1	3.50	<2	4.95	38
20559	1	4	1	7	4	6			3	1	3.50	<2	5.60	39
20560	1	14	1	7	4	6			3	1	2.70	2	3.48	18
20561	1	12	1	7	4	6			3	1	2.70	<2	3.42	13
20562	1	17	1	7	4	6			3	1	2.90	<2	5.35	24
20564	1	1	1	7	4	6			3	1	2.40	<2	4.17	16
20565	1	6	1	7	4	6			3	1	1.90	<2	3.08	11
20567	1	4	1	7	4	6			3	1	2.10	<2	3.49	16
20568	1	6	1	7	4	6			3	1	2.50	<2	3.91	16
20569	1	6	1	7	4	6			3	1	1.90	<2	3.78	17
20570	1	8	1	7	4	6			3	1	3.10	<2	4.14	18
20571	1	6	1	7	4	6			3	1	2.50	<2	5.11	19
20574	1	4	1	7	4	6			3	1	2.60	<2	5.31	16
20575	1	3	1	7	4	6			3	1	2.80	<2	4.97	15
20578	1	8	1	7	4	6			3	1	2.60	<2	3.86	20
20579	1	8	1	7	4	6			3	1	2.50	<2	3.93	21
20581	1	4	1	7	4	6			3	1	2.90	<2	4.29	24
20582	1	8	1	7	4	6			3	1	2.60	<2	5.57	31
20584	1	11	1	7	4	6			3	1	2.20	<2	3.75	23
20585	1	6	1	7	4	6			3	1	2.70	<2	4.31	18
20586	1	11	1	7	4	6			3	1	2.90	<2	5.07	22
20589	1	6	1	7	4	6			3	1	3.00	<2	5.02	20
20590	1	4	1	7	4	6			3	1	2.90	<2	4.73	27

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	HG	MN	MO
20524	492	1	3.57	45	6	31	17	1.77	<15	1.61	20	28	1.52	394	4
20525	345	1	2.45	22	<4	20	5	1.00	<15	1.38	11	55	1.86	138	<4
20526	445	1	4.66	35	4	24	13	1.40	<15	1.27	17	25	1.52	283	<4
20527	414	1	2.08	35	4	23	10	1.39	<15	1.42	18	23	0.54	223	<4
20528	430	1	1.48	38	5	25	13	1.53	15	1.53	18	26	0.74	264	<4
20529	397	1	5.26	33	4	21	10	1.26	<15	1.36	14	39	1.85	223	<4
20530	440	1	2.41	40	5	25	12	1.52	<15	1.70	17	35	1.03	242	<4
20531	203	1	12.73	25	<4	13	15	0.91	<15	1.04	10	18	0.48	133	<4
20532	176	<1	16.77	12	<4	7	4	0.47	<15	0.42	4	14	0.19	92	<4
20533	199	<1	15.27	13	<4	7	4	0.49	<15	0.48	4	5	0.17	89	<4
20534	443	2	3.05	40	4	25	19	1.85	<15	1.68	19	63	1.69	405	<4
20535	512	1	5.44	38	4	23	13	1.68	<15	1.40	17	23	0.48	296	<4
20536	572	2	6.28	41	6	27	16	1.96	<15	1.25	20	23	0.57	352	<4
20537	287	1	12.87	16	<4	11	7	0.74	<15	0.67	7	5	0.20	147	<4
20539	65	<1	21.17	<10	<4	4	2	0.18	<15	0.15	<2	7	0.13	33	<4
20539	174	<1	16.61	16	<4	7	3	0.33	<15	0.38	5	13	0.35	65	<4
20540	254	1	13.43	23	<4	12	10	0.95	<15	0.63	9	20	0.45	199	<4
20541	474	1	6.16	36	4	23	15	1.64	<15	1.32	17	32	0.65	347	<4
20542	235	1	13.91	18	<4	11	8	0.83	<15	0.60	7	21	0.59	185	<4
20543	320	1	11.79	16	<4	13	7	0.88	<15	0.77	9	16	0.45	187	<4
20544	97	<1	19.94	<10	<4	4	3	0.21	<15	0.20	<2	7	0.10	29	<4
20545	172	<1	15.53	<10	<4	5	3	0.38	<15	0.36	2	11	0.27	69	<4
20546	119	<1	17.81	<10	<4	4	2	0.24	<15	0.25	<2	7	0.28	44	<4
20547	461	1	4.44	43	4	24	14	1.65	<15	1.35	19	31	1.15	399	<4
20549	320	1	13.02	19	<4	13	7	0.94	18	0.72	8	15	0.50	161	<4
20551	478	2	1.40	46	8	33	13	2.09	<15	1.42	20	36	1.03	786	<4
20552	462	2	0.80	52	7	50	47	1.82	<15	1.36	24	28	0.58	514	<4
20553	450	2	0.54	52	6	29	11	1.74	<15	1.32	24	25	0.41	386	<4
20554	418	1	0.88	39	5	28	15	1.46	<15	1.36	18	28	0.55	276	<4
20555	372	1	1.29	40	6	35	18	1.69	<15	1.52	19	40	0.87	289	<4
20556	461	1	0.48	36	4	21	12	1.15	<15	1.56	18	27	0.24	351	<4
20557	366	1	0.24	32	4	28	7	1.08	<15	1.35	15	36	0.20	215	<4
20559	399	1	0.63	53	7	46	11	2.01	<15	1.39	25	30	0.54	346	<4
20559	425	1	0.68	56	7	51	13	2.28	<15	1.56	26	35	0.57	388	<4
20560	367	1	0.50	36	4	21	7	1.21	<15	1.35	17	22	0.35	207	<4
20561	374	1	0.42	19	<4	17	8	1.00	<15	1.50	11	25	0.31	185	<4
20562	419	1	1.32	42	6	29	11	1.89	<15	1.68	18	42	0.79	329	<4
20564	387	1	0.28	23	<4	22	9	1.32	<15	1.37	14	25	0.26	206	<4
20565	392	1	0.21	28	<4	13	6	0.92	<15	1.29	14	16	0.15	156	<4
20567	353	1	0.84	32	4	20	7	1.15	<15	1.25	15	22	0.25	196	<4
20568	390	1	0.48	34	<4	21	7	1.25	<15	1.52	16	26	0.37	211	<4
20569	384	1	1.07	30	<4	20	7	1.19	<15	1.31	14	23	0.28	206	<4
20570	395	1	0.73	38	4	22	9	1.50	<15	1.43	18	26	0.32	272	<4
20571	462	1	0.63	46	7	30	13	1.91	<15	1.46	23	28	0.39	402	<4
20574	469	2	0.56	46	7	30	13	2.03	<15	1.51	22	29	0.41	419	<4
20575	447	1	0.52	42	6	30	12	1.99	<15	1.37	23	26	0.39	363	<4
20578	329	1	1.96	34	4	27	10	1.45	<15	1.19	17	24	0.79	250	<4
20579	360	1	1.53	35	4	26	10	1.46	<15	1.22	18	24	0.78	246	<4
20581	357	1	1.54	35	5	28	12	1.54	<15	1.43	18	29	0.78	269	<4
20582	406	2	3.24	54	8	37	14	2.23	<15	1.46	25	31	0.88	371	<4
20584	361	1	4.30	43	5	25	9	1.45	<15	1.18	18	23	0.61	286	<4
20585	374	1	0.84	36	4	29	9	1.84	<15	1.33	17	25	0.38	247	<4
20586	415	1	2.76	39	6	35	15	2.02	<15	1.62	19	27	1.28	355	<4
20589	431	1	1.94	47	6	36	13	2.10	<15	1.49	22	23	1.04	367	<4
20590	396	1	3.10	39	6	35	15	1.91	<15	1.51	18	26	1.37	338	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZK	ZR
20524	0.53	9	17	567	28	4	149	5	2163	51	11	48	71
20525	0.78	<4	13	289	11	3	88	4	1516	34	7	16	79
20526	0.50	6	11	424	19	3	145	8	1786	39	10	36	64
20527	0.53	8	16	228	15	3	113	7	2282	41	9	29	78
20528	0.47	7	16	213	16	4	109	6	2068	42	9	33	75
20529	0.53	6	10	278	18	3	160	9	1753	38	8	28	63
20530	0.63	7	12	298	20	4	108	6	2023	43	9	31	76
20531	0.49	7	8	511	13	3	757	7	1387	28	8	63	51
20532	0.24	7	<2	97	<10	1	620	3	859	13	4	13	27
20533	0.28	8	4	112	<10	1	464	<2	924	14	4	14	33
20534	0.66	9	13	708	21	4	264	<2	2313	47	12	61	76
20535	0.68	9	13	378	13	4	199	<2	2449	43	11	40	76
20536	0.43	11	15	505	17	5	209	7	2364	51	13	50	82
20537	0.36	8	7	210	<10	2	299	3	1189	21	6	21	40
20538	0.09	6	<2	100	<10	1	2192	3	284	5	1	6	12
20539	0.23	8	2	72	<10	1	1221	7	638	12	3	9	21
20540	0.27	10	9	357	10	3	799	8	1205	25	7	33	45
20541	0.56	9	16	582	14	4	470	3	2101	42	12	53	73
20542	0.28	9	10	376	<10	2	1002	3	1122	22	6	28	40
20543	0.37	7	9	226	<10	2	768	5	1325	25	7	22	48
20544	0.12	7	4	79	<10	1	1192	<2	390	7	2	6	15
20545	0.19	7	4	78	<10	1	1792	<2	785	12	3	8	26
20546	0.14	6	4	70	<10	1	1754	2	512	7	2	6	19
20547	0.52	9	13	533	24	4	247	7	2203	43	11	43	73
20549	0.30	5	9	208	<10	2	423	6	1444	27	7	25	54
20551	0.51	8	20	258	19	5	143	3	2729	58	12	56	87
20552	0.52	10	24	232	21	4	136	6	2647	52	12	74	86
20553	0.53	10	12	221	24	4	133	8	2714	51	12	35	88
20554	0.45	9	11	228	21	3	248	6	2572	43	10	35	94
20555	0.37	5	16	265	20	5	303	8	2309	51	11	33	76
20556	0.66	7	8	205	28	3	210	6	2407	36	9	38	90
20557	0.39	9	8	159	13	3	215	2	1777	31	8	22	68
20558	0.46	11	16	280	37	5	139	13	2243	69	14	40	81
20559	0.49	11	19	328	27	6	152	6	2539	77	16	47	88
20560	0.50	10	12	141	16	3	101	7	1874	33	9	25	79
20561	0.55	4	5	164	<10	2	95	<2	1503	26	7	20	73
20562	0.60	6	14	226	15	4	132	6	2175	48	11	36	76
20564	0.59	7	10	118	14	3	112	<2	1937	34	9	27	62
20565	0.54	8	4	61	17	2	87	3	1672	25	7	17	52
20567	0.47	8	11	96	17	3	105	8	1750	31	8	21	57
20568	0.63	7	8	125	16	3	107	6	1911	33	9	25	68
20569	0.50	8	8	106	22	3	113	3	1673	32	8	23	53
20570	0.60	9	10	177	<10	4	114	<2	2204	39	10	32	79
20571	0.62	10	11	306	22	5	133	7	2244	46	14	50	70
20574	0.63	10	11	315	11	5	138	3	2418	48	14	53	75
20575	0.59	10	11	278	24	5	129	4	2577	48	14	48	79
20578	0.41	8	10	258	28	4	139	6	1834	38	9	36	64
20579	0.47	10	10	259	19	4	134	3	1854	39	9	36	65
20581	0.51	8	11	274	24	4	141	8	1976	40	10	35	70
20582	0.43	11	17	304	22	6	154	8	2160	58	14	47	68
20584	0.36	10	12	183	18	4	123	10	1783	39	10	30	60
20585	0.39	9	10	129	13	4	113	4	2301	46	11	36	81
20586	0.62	10	13	399	16	5	102	3	2538	48	12	50	74
20589	0.58	10	11	387	21	5	98	7	2549	50	13	47	77
20590	0.56	9	14	402	22	4	102	8	2312	47	11	49	70

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEN	CONN	MEAS	PH	CT-F
20591	M	35	32.247	104.548	2	15	11/06/76	13	20.0					
20592	M	35	32.249	104.527	2	15	11/06/76	13	20.0					
20593	M	35	32.242	104.504	2	15	11/06/76	14	18.0					
20594	M	35	32.232	104.504	2	15	11/06/76	14	18.0					
20596	M	35	32.214	104.514	2	15	11/06/76	14	18.0					
20600	M	35	32.212	104.638	2	15	11/06/76	16	16.0					
20602	H	35	32.520	104.076	2	96	11/04/76	16	14.0					
20603	M	35	32.744	104.396	2	15	11/06/76	10	18.0					
20606	M	35	32.720	104.454	2	15	11/06/76	11	22.0					
20608	M	35	32.700	104.470	2	15	11/06/76	11	23.0					
20610	M	35	32.678	104.434	2	15	11/06/76	12	23.0					
20611	M	35	32.669	104.444	2	15	11/06/76	12	24.0					
20613	M	35	32.676	104.383	2	15	11/06/76	13	24.0					
20614	M	35	32.632	104.382	2	15	11/06/76	13	24.0					
20616	M	35	32.590	104.450	2	15	11/06/76	15	25.0					
20617	M	35	32.581	104.387	2	15	11/06/76	15	25.0					
20618	M	35	32.581	104.385	2	15	11/06/76	15	25.0					
20620	M	35	32.544	104.383	2	15	11/06/76	17	21.0					
20621	M	35	32.540	104.379	2	15	11/06/76	17	19.0					
20622	H	35	32.507	104.385	2	97	11/07/76	13	12.0		C			
20623	M	35	32.508	104.427	2	15	11/07/76	14	12.0					
20624	M	35	32.526	104.418	2	15	11/07/76	14	11.0					
20628	M	35	32.640	104.437	2	15	11/07/76	16	12.0					
20631	M	35	32.614	104.556	2	15	11/08/76	9	18.0					
20632	M	35	32.595	104.596	2	15	11/08/76	10	19.0					
20636	M	35	32.589	104.534	2	15	11/08/76	11	20.0					
20637	M	35	32.590	104.534	2	15	11/08/76	11	20.0					
20638	M	35	32.606	104.505	2	15	11/08/76	12	21.0					
20640	M	35	32.549	104.593	2	15	11/08/76	13	22.0					
20641	M	35	32.557	104.580	2	15	11/08/76	13	22.0					
20643	M	35	32.535	104.538	2	15	11/08/76	14	23.0					
20644	M	35	32.533	104.536	2	15	11/08/76	14	23.0					
20646	M	35	32.562	104.505	2	15	11/08/76	15	24.0					
20648	M	35	32.527	104.502	2	15	11/08/76	16	23.0					
20649	M	35	32.522	104.506	2	11	11/08/76	16	22.0	13.0			8.7	29000
20651	M	35	32.134	104.334	2	15	11/04/76	16	24.0					
20652	M	35	32.119	104.360	2	15	11/04/76	16	23.0					
20654	M	35	32.099	104.402	2	15	11/04/76	16	22.0					
20655	M	35	32.126	104.387	2	15	11/04/76	17	21.0					
20656	M	35	32.135	104.396	2	15	11/04/76	17	22.0					
20723	M	35	32.090	104.190	2	15	11/08/76	9	20.0					
20724	M	35	32.054	104.234	2	15	11/08/76	10	21.0					
20725	H	35	32.035	104.136	2	14	11/08/76	10	19.0	12.0			9.7	750
20726	M	35	32.028	104.129	2	15	11/08/76	10	19.0					
20727	M	35	32.017	104.093	2	15	11/08/76	11	20.0					
20728	M	35	32.024	104.144	2	15	11/08/76	11	21.0					
20729	M	35	32.024	104.164	2	15	11/08/76	11	21.0					
20730	M	35	32.013	104.187	2	15	11/08/76	11	19.0					
20731	M	35	32.001	104.223	2	15	11/08/76	11	18.0					
20732	H	35	32.241	104.014	2	96	11/08/76	11	20.0					
20752	M	35	32.236	104.647	2	15	11/06/76	16	16.0					
20754	M	35	32.050	104.501	2	15	11/07/76	10	10.0					
20755	M	35	32.049	104.528	2	15	11/07/76	10	10.0					
20756	M	35	32.047	104.527	2	15	11/07/76	10	10.0					
20758	M	35	32.017	104.536	2	15	11/07/76	11	10.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
20591	1	6	1	7	4	6			3	1	3.00	<2	4.28	24
20592	1	6	1	7	4	6			3	1	2.70	<2	4.87	21
20593	1	6	1	7	4	6			3	1	2.50	<2	3.58	15
20594	1	6	1	7	4	6			3	1	2.30	<2	3.30	17
20596	1	6	1	7	4	6			3	1	2.60	<2	3.25	13
20600	1	8	1	7	4	6			3	1	3.10	<2	4.60	20
20602	1	8	1	4	4	6			1	1	2.20	<2	4.26	18
20603	1	5	1	1	4	6			2	1	2.20	<2	3.44	15
20606	1	7	1	1	4	6			2	1	2.20	<2	3.84	16
20608	1	11	1	1	4	6			1	1	2.20	<2	4.54	18
20610	1	8	1	1	4	6			2	1	2.40	<2	4.18	16
20611	1	9	1	4	4	4			2	1	2.30	<2	3.77	12
20613	1	11	1	1	4	6			1	1	2.10	<2	4.76	22
20614	1	5	1	4	4	4			1	1	1.80	<2	3.37	11
20616	1	5	1	1	5	6			2	1	1.70	<2	3.56	13
20617	1	5	1	4	4	6			2	1	2.40	<2	4.23	18
20618	1	5	1	4	4	6			2	1	2.10	<2	3.96	15
20620	1	5	1	1	4	6			2	1	2.20	<2	3.94	17
20621	1	5	1	1	4	6			2	1	2.50	<2	5.14	20
20622	1	4	1	1	5	6			1	3	2.40	<2	4.42	16
20623	1	11	1	1	4	6			1	3	2.70	<2	4.35	19
20624	1	5	1	1	4	6			2	3	2.30	<2	3.93	18
20628	1	8	1	4	4	4			2	2	2.00	<2	3.46	14
20631	1	11	1	1	4	4			1	1	2.30	<2	5.11	21
20632	1		1	1	4	6			2	1	2.30	<2	4.42	19
20636	1	4	1	4	4	4			2	1	1.80	<2	3.91	26
20637		5	1	4	4	4			2	1	1.70	<2	3.85	22
20638	1	5	1	4	4	4			1	1	2.20	<2	4.55	20
20640	1	9	1	4	4	6			2	1	2.30	<2	4.29	16
20641	1	8	1	4	4	6			2	1	2.20	<2	4.87	19
20643	1	4	1	1	4	4			2	1	2.00	<2	3.45	13
20644	1	4	1	1	4	4			2	1	1.50	<2	3.76	16
20646	1	7	1	1	4	4			2	1	2.20	<2	4.33	21
20648	1	4	1	4	4	4			2	1	1.00	<2	1.47	<10
20649	1	2	1	1	4	4	2	1	2	1	1.60	<2	2.96	<10
20651	1	6	1	6	4	6			2	1	2.00	<2	3.36	17
20652	1	9	1	6	4	6			2	1	1.50	<2	3.03	16
20654	1	10	1	6	4	6			2	1	2.10	<2	3.52	19
20655	1	9	1	6	4	6			2	1	2.40	<2	3.10	15
20656	1	10	1	6	4	6			2	1	2.30	<2	3.68	18
20723	1	3	1	6	4	6			2	1	1.20	<2	1.99	<10
20724	1	9	1	6	4	6			2	1	0.90	<2	0.95	<10
20725	1	7	1	6	5	6		2	2	1	2.00	<2	3.36	20
20726	1	7	1	6	4	6			2	1	2.10	<2	3.59	24
20727	1	7	1	6	4	6			2	1	1.70	<2	2.29	<10
20728	1	4	1	6	4	6			2	1	2.30	<2	2.67	11
20729	1	4	1	6	4	6			2	1	2.10	<2	3.83	27
20730	1	3	1	6	4	6			2	1	2.10	<2	4.24	33
20731	1	7	1	6	4	6			2	1	1.30	<2	2.27	<10
20732	1	6	1	6	4	6			2	1	1.90	<2	3.11	17
20752	1	8	1	7	4	6			3	1	2.40	<2	4.85	51
20754	1	3	1	7	4	6			2	3	2.30	<2	3.24	17
20755	1	4	1	7	4	6			2	3	2.10	<2	2.98	12
20756	1	3	1	7	4	6			2	3	2.50	<2	2.67	<10
20758	1	3	1	7	4	6			2	3	1.80	<2	2.90	11

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
20591	383	1	3.41	47	6	34	14	1.84	<15	1.35	21	23	1.30	341	<4
20592	423	1	2.24	45	5	34	13	1.89	<15	1.52	21	23	1.22	349	<4
20593	359	1	5.23	34	5	23	10	1.43	<15	1.26	15	23	1.14	241	<4
20594	335	1	6.59	25	4	20	8	1.25	<15	1.18	12	23	1.31	224	<4
20596	343	1	7.20	28	4	20	8	1.30	<15	1.06	14	22	1.33	228	<4
20600	385	1	1.08	41	6	30	11	1.81	<15	1.50	20	31	0.69	351	<4
20602	474	1	4.06	43	6	24	12	1.81	<15	1.35	20	19	0.62	293	<4
20603	351	1	9.67	35	5	24	9	1.36	<15	0.98	15	18	0.80	277	<4
20606	359	1	9.35	32	5	25	10	1.47	<15	1.14	15	21	0.88	296	<4
20608	453	1	2.70	43	5	23	14	1.80	<15	1.62	20	19	0.72	360	<4
20610	434	1	3.97	42	5	26	10	1.58	<15	1.30	19	15	1.19	303	<4
20611	432	1	4.32	38	4	22	9	1.42	19	1.31	18	18	1.11	248	<4
20613	427	1	5.19	48	7	27	15	1.98	<15	1.38	22	21	0.85	407	<4
20614	427	1	5.35	29	4	18	8	1.10	<15	1.20	14	16	1.27	209	<4
20616	367	1	6.57	26	<4	17	9	1.08	<15	1.24	12	23	0.84	165	<4
20617	423	1	4.61	38	5	25	10	1.47	<15	1.28	18	22	1.69	279	<4
20618	413	1	5.94	35	5	22	10	1.42	<15	1.16	17	22	1.49	315	<4
20620	425	1	3.96	39	5	22	11	1.44	<15	1.27	18	21	1.12	265	<4
20621	433	1	2.81	44	6	28	15	2.01	<15	1.65	20	30	1.33	344	<4
20622	422	1	2.86	43	6	24	18	1.72	<15	1.37	20	15	0.74	302	<4
20623	435	1	4.08	42	5	26	12	1.66	<15	1.43	19	23	1.16	289	<4
20624	411	1	3.73	36	5	22	11	1.44	<15	1.35	18	21	1.17	261	<4
20628	423	1	3.98	30	4	17	7	1.13	<15	1.27	15	15	0.99	195	<4
20631	453	1	3.83	42	5	28	14	2.02	<15	1.74	22	33	1.14	379	<4
20632	463	1	3.53	41	5	24	12	1.64	<15	1.59	21	30	1.14	273	<4
20636	357	1	6.39	33	5	22	9	1.38	<15	1.42	15	48	1.27	333	<4
20637	369	1	7.19	32	5	21	8	1.27	21	1.48	14	48	1.14	220	<4
20638	472	1	2.69	48	5	24	12	1.66	<15	1.75	23	26	0.90	383	<4
20640	464	1	2.50	32	4	23	9	1.56	<15	1.83	17	26	0.87	299	<4
20641	457	1	6.74	43	5	27	13	1.63	<15	1.63	22	33	1.23	287	<4
20643	414	1	4.72	28	<4	19	6	1.12	<15	1.53	14	24	1.67	214	<4
20644	432	1	2.65	35	4	10	7	1.21	<15	1.66	18	25	0.86	218	<4
20645	438	1	6.04	35	5	24	11	1.50	20	1.62	18	34	1.50	292	<4
20648	197	<1	13.51	<10	<4	6	2	0.38	<15	0.66	3	16	0.34	66	<4
20649	295	1	11.06	23	<4	16	6	1.05	<15	0.98	11	25	0.85	195	<4
20651	385	1	11.82	26	<4	21	8	1.20	<15	1.08	13	23	0.98	211	<4
20652	354	1	10.52	22	<4	19	7	1.09	<15	1.08	11	21	1.03	208	<4
20654	375	1	11.15	30	4	23	8	1.35	<15	1.07	16	25	1.03	252	<4
20655	393	1	3.62	41	<4	21	7	1.36	<15	1.36	21	18	0.57	220	<4
20656	402	1	2.93	38	4	24	9	1.45	<15	1.49	19	20	0.69	266	<4
20723	255	<1	12.80	17	<4	11	5	0.70	<15	0.80	7	18	0.47	130	<4
20724	127	<1	19.67	<10	<4	6	3	0.38	<15	0.32	2	13	0.35	72	<4
20725	433	1	11.86	32	4	21	8	1.38	<15	1.09	15	26	0.82	203	<4
20726	449	1	9.42	33	4	21	11	1.44	<15	1.32	16	26	0.88	220	<4
20727	225	<1	10.24	18	<4	14	6	0.89	<15	1.06	9	23	1.47	174	<4
20728	294	1	10.32	23	<4	15	8	1.03	<15	0.97	11	27	1.57	220	<4
20729	437	1	4.49	35	5	22	10	1.47	<15	1.70	18	33	1.15	279	<4
20730	448	1	5.99	33	5	24	14	1.68	<15	1.72	17	40	1.16	308	<4
20731	273	<1	11.85	12	<4	11	6	0.75	<15	0.95	7	19	0.56	146	<4
20732	584	1	6.29	29	<4	16	8	1.21	<15	1.39	15	20	0.55	224	<4
20752	325	1	7.08	39	4	36	14	1.45	<15	1.64	20	40	1.62	218	<4
20754	279	1	6.78	36	4	21	9	1.26	<15	1.28	17	19	0.95	248	<4
20755	344	1	9.87	30	<4	20	8	1.17	<15	1.08	15	15	1.33	243	<4
20756	316	1	9.80	27	<4	20	7	1.23	<15	1.00	14	18	1.36	247	<4
20758	380	1	7.18	30	<4	14	6	0.99	22	1.29	13	16	0.71	200	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
20591	0.51	12	10	397	13	4	100	7	2453	45	11	43	77
20592	0.64	10	13	412	17	4	104	4	2391	45	12	44	72
20593	0.54	9	10	314	14	3	105	5	2076	34	9	26	69
20594	0.49	7	7	248	10	3	102	4	1726	30	8	28	60
20596	0.47	10	10	238	15	3	107	6	1931	32	9	25	65
20600	0.44	8	13	265	16	5	113	3	2155	44	12	35	76
20602	0.55	10	14	389	26	4	157	11	2134	46	11	45	66
20603	0.36	11	9	340	29	3	254	7	1719	34	10	38	49
20606	0.44	11	10	417	11	4	279	<2	1842	36	11	42	54
20608	0.58	8	11	597	14	4	124	6	2263	39	12	52	68
20610	0.58	10	10	390	20	4	153	5	2138	38	11	40	64
20611	0.57	10	11	292	12	3	144	7	2039	36	10	34	62
20613	0.43	13	12	631	22	5	155	3	2092	43	13	57	64
20614	0.56	9	9	232	16	3	153	5	1584	29	9	25	44
20616	0.51	7	11	320	12	3	268	4	1283	25	8	35	45
20617	0.69	10	10	321	26	4	152	7	1899	35	11	36	58
20618	0.58	11	11	356	28	4	171	9	1715	34	10	35	55
20620	0.60	10	10	344	27	4	128	8	1866	34	10	32	60
20621	0.59	10	14	476	20	5	107	9	2195	43	12	52	69
20622	0.56	9	12	315	19	4	158	5	2115	37	11	137	63
20623	0.65	10	10	355	20	4	124	5	2160	40	10	43	67
20624	0.64	10	10	338	22	3	123	9	1907	34	9	36	61
20628	0.60	7	6	267	13	3	148	5	1751	28	9	32	50
20631	0.62	10	14	485	12	5	114	8	2379	44	14	53	75
20632	0.74	9	12	391	16	4	130	11	2188	36	12	51	72
20636	0.59	7	13	475	11	4	129	7	1538	31	9	27	67
20637	0.65	7	11	341	15	4	127	7	1438	31	9	32	53
20638	0.80	9	11	707	11	4	130	9	2186	38	13	52	71
20640	0.82	7	11	287	11	4	124	6	2247	37	11	41	72
20641	0.64	10	15	420	10	5	143	9	2200	42	14	46	72
20643	0.81	8	7	235	<10	3	129	4	1873	29	9	26	61
20644	0.86	7	7	249	15	3	119	9	1991	31	10	28	76
20646	0.82	9	13	442	11	4	158	5	1968	37	12	41	69
20648	0.34	5	2	82	<10	1	1522	4	606	12	3	9	26
20649	0.47	8	8	255	<10	3	698	3	1219	25	8	27	52
20651	0.52	12	9	293	<10	3	215	2	1700	33	10	21	60
20652	0.50	8	7	246	<10	3	213	2	1661	29	10	26	63
20654	0.45	10	9	322	<10	4	249	4	1732	35	11	25	62
20655	0.56	9	8	214	13	3	110	3	2157	37	10	28	78
20656	0.62	8	8	280	12	4	115	9	2094	36	11	35	76
20723	0.35	7	5	187	<10	2	1077	3	913	19	5	18	34
20724	0.23	8	<2	100	<10	1	1362	<2	580	13	3	10	21
20725	0.40	12	10	349	<10	4	156	7	1795	38	11	23	68
20736	0.53	10	8	408	<10	4	177	6	1969	40	11	34	73
20727	0.86	6	5	249	<10	2	766	3	1221	25	7	12	46
20728	0.66	7	8	382	<10	3	805	4	1316	28	8	25	48
20729	0.65	8	11	350	<10	4	159	<2	1961	37	10	34	72
20730	0.73	9	12	484	<10	4	281	3	1991	40	12	44	72
20731	0.43	7	6	236	<10	2	1049	5	1015	19	6	21	35
20732	0.64	7	7	315	24	3	132	3	1896	47	10	25	72
20752	0.28	8	10	473	23	5	294	9	1887	50	12	42	64
20754	0.61	10	9	303	15	3	135	10	1958	33	10	25	66
20755	0.50	9	7	276	<10	3	140	8	1730	30	10	31	61
20756	0.47	10	9	229	<10	3	129	5	1991	31	10	31	67
20758	0.60	9	5	231	<10	2	128	6	1702	25	9	25	56

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAE	NTYP	DATE	HOUR	ATEM	WTEN	COMM	NEAS	PH	CT-F
20759	M	35	32.026	104.509	2	15	11/07/76	11	10.0					
20760	M	35	32.031	104.501	2	15	11/07/76	11	10.0					
20761	M	35	32.014	104.505	2	15	11/07/76	11	10.0					
20762	H	35	32.042	104.514	2	96	11/07/76	11	12.0					
20763	M	35	32.032	104.562	2	15	11/07/76	12	12.0					
20766	M	35	32.041	104.581	2	15	11/07/76	12	12.0					
20767	M	35	32.040	104.581	2	15	11/07/76	12	12.0					
20768	H	35	32.021	104.596	2	96	11/07/76	13	14.0					
20770	M	35	32.034	104.626	2	15	11/07/76	13	14.0					
20771	M	35	32.067	104.633	2	15	11/07/76	13	14.0					
20774	M	35	32.036	104.686	2	15	11/07/76	14	14.0					
20775	M	35	32.023	104.627	2	15	11/07/76	14	12.0					
20776	M	35	32.021	104.627	2	15	11/07/76	14	12.0					
20777	M	35	32.029	104.608	2	15	11/07/76	14	12.0					
20778	M	35	32.079	104.572	2	15	11/07/76	15	10.0					
20779	M	35	32.064	104.568	2	15	11/07/76	15	10.0					
20780	M	35	32.062	104.569	2	15	11/07/76	15	10.0					
20791	M	35	32.065	104.545	2	15	11/07/76	15	10.0					
20782	M	35	32.077	104.525	2	15	11/07/76	15	10.0					
20783	M	35	32.079	104.526	2	15	11/07/76	16	10.0					
20784	M	35	32.080	104.524	2	15	11/07/76	16	10.0					
20785	M	35	32.119	104.510	2	15	11/07/76	16	10.0					
20786	M	35	32.125	104.514	2	15	11/07/76	16	10.0					
20787	M	35	32.084	104.538	2	15	11/07/76	16	10.0					
20801	M	35	32.213	104.034	2	15	11/06/76	12	27.0		C			
20803	M	35	32.123	104.042	2	15	11/06/76	13	26.0					
20804	M	35	32.087	104.049	2	15	11/06/76	13	27.0					
20806	M	35	32.022	104.055	2	12	11/06/76	15	26.0	15.0			7.7	2800
20807	M	35	32.033	104.022	2	12	11/06/76	16	28.0	13.5			7.5	2900
20809	M	35	32.064	104.210	2	15	11/06/76	17	19.0					
20810	M	35	32.082	104.987	2	15	11/07/76	14	16.0					
20811	M	35	32.092	104.997	2	15	11/07/76	14	16.0					
20812	M	35	32.087	104.992	2	15	11/07/76	14	20.0					
20813	M	35	32.154	104.999	2	15	11/07/76	15	15.0					
20814	M	35	32.057	104.999	2	15	11/08/76	9	18.0					
20816	M	35	32.039	104.971	2	15	11/08/76	10	18.0					
20817	M	35	32.021	104.992	2	15	11/08/76	10	25.0					
20819	M	35	32.006	104.992	2	15	11/08/76	11	25.0					
20870	O	35	32.130	104.565	2	99	11/12/76	11	2.0		C			
20871	M	35	32.131	104.571	2	15	11/12/76	11	<2.0					
20872	M	35	32.131	104.573	2	15	11/12/76	12	<2.0					
20873	M	35	32.121	104.574	2	15	11/12/76	13	<4.0					
21436	M	35	32.854	104.361	2	15	11/24/76	9	13.0					
21438	M	35	32.810	104.361	2	15	11/24/76	10	14.0					
21439	H	35	32.784	104.364	2	96	11/24/76	10	15.0					
21440	M	35	32.852	104.306	2	15	11/24/76	10	15.0					
21441	M	35	32.862	104.311	2	15	11/24/76	10	15.0					
21442	H	35	32.859	104.266	2	97	11/24/76	11	19.0					
21443	M	35	32.849	104.260	2	15	11/24/76	12	20.0					
21444	M	35	32.849	104.261	2	15	11/24/76	12	20.0					
21446	M	35	32.836	104.308	2	15	11/24/76	12	20.0					
21447	M	35	32.809	104.287	2	15	11/24/76	13	20.0					
21448	M	35	32.809	104.287	2	15	11/24/76	13	20.0					
21449	M	35	32.817	104.316	2	15	11/24/76	13	21.0		C			
21450	M	35	32.794	104.322	2	15	11/24/76	13	21.0		C			

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
20759	1	1	1	7	4	6			2	3	2.20	<2	3.50	14
20760	1	4	1	7	4	6			2	3	2.00	<2	3.25	11
20761	1	3	1	7	4	6			2	3	1.80	<2	2.91	13
20762	1	16	1	7	4	6			2	3	2.00	<2	4.71	22
20763	1	3	1	7	4	6			2	3	2.50	<2	2.48	12
20766	1	3	1	7	4	6			2	3	2.40	<2	3.96	20
20767	1	1	1	7	4	6			2	3	2.00	<2	3.36	17
20768	1	3	1	7			3		2	3	2.10	<2	3.73	18
20770	1	3	1	7	4	6			2	2	2.30	<2	2.99	<10
20771	1	1	1	7	4	6			2	2	2.00	<2	3.22	18
20774	1	4	1	7	4	6			2	2	2.30	<2	3.94	25
20775	1	4	1	7	4	6			2	2	2.20	<2	2.62	16
20776	1	4	1	7	4	6			2	2	2.00	<2	2.63	16
20777	1	3	1	7	4	6			2	2	2.10	<2	2.47	15
20778	1	3	1	7	4	6			2	2	1.70	<2	2.96	14
20779	1	3	1	7	4	6			2	2	2.00	<2	3.25	14
20780	1	3	1	7	4	6			2	2	2.30	<2	3.46	19
20781	1	3	1	7	4	6			2	2	2.10	<2	2.88	15
20782	1	3	1	7	4	6			2	2	1.50	<2	4.00	18
20783	1	4	1	7	4	6			2	2	1.90	<2	2.13	18
20784	1	4	1	7	4	6			2	2	2.00	<2	2.20	18
20785	1	4	1	7	4	6			2	2	1.80	<2	2.04	17
20786	1	4	1	7	4	6			2	2	1.90	<2	2.29	19
20787	1	4	1	7	4	6			2	2	2.30	<2	3.18	27
20801	9	4	1	7	4	4			2	1	3.70	<2	2.22	<10
20803	1	9	1	7	5	6			2	1	2.50	<2	3.96	20
20804	1	9	1	7	4	6			2	1	2.20	<2	4.46	33
20806	1	9	1	7	5	8	2	2	2	1	2.30	<2	3.84	29
20807	1	6	1	7	6	8	2	2	2	1	2.30	<2	4.24	25
20809	1	9	1	7	5	6			2	1	2.60	<2	4.54	17
20810	1	10	1	6	3	7			4	1	2.00	<2	2.23	<10
20811	1	6	1	7	4	7			3	1	2.20	<2	3.12	11
20812	1	10	1	6	3	6			4	1	2.30	<2	3.61	13
20813	1	10	1	6	3				4	1	2.20	<2	3.78	<10
20814	1	9	1	6	4	6			3	1	2.50	<2	3.61	11
20816	1	4	1	6	4	6			4	1	2.40	<2	3.42	11
20817	1	6	1	7	4	6			2	1	1.70	<2	2.80	10
20819	1	7	1	7	5	1			2	1	2.60	<2	2.65	<10
20870	1	2	1	7	4	6			5	5	2.40	<2	4.65	21
20871	1	18	1	7	3	6			5	5	2.30	<2	5.21	31
20872	1	4	1	7	3	6			5	5	2.30	<2	4.86	26
20873	1	4	1	7					5	5	1.80	<2	2.94	23
21436	1	6	1	6	4	6			1	1	2.30	<2	3.71	21
21438	1	4	1	6	4	6			1	1	2.20	<2	4.04	21
21439	1	6	1	6	4	6			1	1	2.20	<2	3.73	17
21440	1	9	1	4	4	4			2	1	1.80	<2	3.24	22
21441	1	7	1	4	4	4			2	1	2.00	<2	5.08	32
21442	2	4	1	4	4	4			2	1	1.60	<2	2.94	<10
21443	2	6	1	4	4	4			2	1	2.30	<2	3.88	28
21444	2	7	1	4	4	4			2	1	0.60	<2	1.32	<10
21446	1	7	1	4	4	4			1	1	2.20	<2	4.13	21
21447	1	3	1	4	4	4			2	1	1.00	<2	1.39	<10
21448	1	3	1	4	4	4			2	1	0.70	<2	1.04	<10
21449	2	7	1	4	4	4			2	1	2.00	<2	4.50	32
21450	2	9	1	4	4	4			2	1	1.50	<2	4.31	31

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
20759	416	1	6.52	32	<4	19	9	1.26	<15	1.40	16	18	0.68	244	<4
20760	405	1	7.27	27	<4	17	7	1.13	<15	1.43	14	18	0.72	211	<4
20761	389	1	7.63	31	4	17	7	1.05	<15	1.19	16	16	0.76	202	<4
20762	437	1	7.17	46	5	26	17	1.63	<15	1.52	21	26	0.98	380	<4
20763	432	<1	8.15	25	<4	16	5	1.04	<15	1.22	12	16	0.57	187	<4
20766	381	1	5.82	38	5	27	10	1.66	<15	1.27	21	24	0.88	277	<4
20767	357	1	5.52	31	4	23	8	1.29	<15	1.20	16	22	1.03	220	<4
20768	403	1	6.81	33	4	23	10	1.38	<15	1.38	16	22	0.86	257	<4
20770	360	1	5.83	30	<4	20	6	1.28	<15	1.25	14	18	0.75	240	<4
20771	319	1	2.70	34	4	25	8	1.28	<15	1.18	15	24	0.55	242	<4
20774	396	1	1.87	44	5	25	13	1.61	<15	1.73	21	25	0.58	293	<4
20775	294	1	10.72	24	<4	19	7	1.09	<15	0.98	11	18	1.67	219	<4
20776	279	1	12.08	18	<4	18	8	1.03	<15	0.93	10	18	1.84	215	<4
20777	273	1	11.09	13	<4	18	6	1.02	<15	0.87	7	17	1.86	202	<4
20778	394	1	8.66	21	<4	15	7	0.96	<15	1.26	10	17	0.44	171	<4
20779	385	1	8.03	23	<4	18	8	1.19	<15	1.35	12	15	0.72	209	<4
20780	353	1	9.49	30	4	24	10	1.42	22	1.16	17	21	1.36	306	<4
20781	343	1	9.41	26	<4	19	7	1.15	<15	1.11	12	16	1.28	240	<4
20782	454	1	5.23	29	<4	20	10	1.40	24	1.69	15	22	0.49	253	<4
20783	197	1	11.14	22	<4	22	6	1.01	<15	0.63	10	19	2.65	189	<4
20784	214	1	10.55	26	<4	22	7	0.99	<15	0.69	11	19	2.57	177	<4
20785	192	<1	11.25	17	<4	20	6	0.97	<15	0.63	8	19	2.66	180	<4
20786	224	1	10.75	18	<4	21	6	1.02	<15	0.72	9	19	2.59	189	<4
20787	304	1	8.04	32	<4	27	9	1.31	<15	1.04	15	24	1.99	288	<4
20301	533	<1	12.11	48	4	18	5	2.48	<15	0.73	24	15	0.41	701	<4
20303	418	1	4.40	36	5	23	11	1.47	<15	1.47	18	25	1.08	328	<4
20304	435	1	8.06	39	5	25	14	1.79	<15	1.50	18	38	1.32	383	<4
20306	400	1	5.13	30	4	23	10	1.33	<15	1.65	14	30	1.09	223	<4
20807	415	1	6.26	33	5	28	11	1.48	<15	1.46	17	30	0.98	270	<4
20309	453	1	8.90	38	6	27	14	1.87	<15	1.42	20	46	1.27	397	<4
20310	284	<1	5.35	18	<4	14	4	0.92	<15	1.10	10	16	1.98	176	<4
20311	379	1	9.03	27	<4	19	9	1.14	<15	1.16	14	20	2.82	226	<4
20312	367	1	10.19	30	4	23	12	1.36	<15	1.19	14	25	2.87	269	<4
20313	488	1	3.77	35	<4	21	9	1.45	<15	1.53	18	18	1.14	266	<4
20314	411	1	9.27	21	4	19	9	1.28	<15	1.31	13	27	2.28	263	<4
20316	380	1	9.41	26	<4	21	13	1.26	<15	1.09	15	23	2.74	246	<4
20817	345	1	6.97	18	<4	17	6	0.80	<15	1.22	10	21	2.26	159	<4
20319	320	1	11.39	18	<4	17	7	0.85	<15	0.97	9	25	1.74	180	<4
20370	385	1	2.75	52	5	30	13	1.83	<15	1.36	24	30	0.57	412	<4
20371	421	1	5.29	46	6	35	22	2.06	<15	1.50	25	32	0.98	534	<4
20372	428	1	4.37	47	5	33	19	2.01	<15	1.38	24	28	1.07	519	<4
20373	255	1	12.62	22	<4	27	11	1.25	<15	0.72	12	22	2.70	272	<4
21336	421	1	6.65	42	5	25	12	1.43	<15	1.25	20	21	0.82	292	<4
21438	483	1	7.93	34	5	24	12	1.57	<15	1.45	17	27	0.92	311	<4
21339	413	1	7.39	32	4	22	10	1.44	<15	1.40	16	21	0.82	282	<4
21440	577	1	9.61	23	4	20	9	1.21	<15	1.12	13	26	0.99	251	<4
21441	500	1	6.40	43	7	34	17	2.23	<15	1.51	21	45	1.82	469	<4
21442	246	1	8.05	28	<4	20	8	1.01	<15	1.17	11	32	2.02	181	<4
21443	499	1	6.74	39	5	26	13	1.65	<15	1.43	19	36	1.08	295	<4
21444	146	<1	17.63	<10	<4	9	4	0.59	<15	0.35	4	16	0.47	101	<4
21446	385	1	1.26	43	5	25	10	1.69	<15	1.46	21	28	1.05	369	<4
21447	163	<1	17.01	22	<4	10	5	0.60	15	0.42	9	16	0.71	114	<4
21448	101	<1	19.83	10	<4	8	3	0.47	<15	0.25	4	17	0.54	75	<4
21449	427	1	4.66	45	7	32	13	1.85	<15	1.43	21	42	1.85	311	<4
21450	413	1	4.30	37	5	28	10	1.60	<15	1.63	17	46	1.79	311	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PR	SC	SR	TH	TI	V	Y	ZK	ZR
20759	0.67	9	7	281	<10	3	138	8	1988	31	10	33	64
20760	0.70	9	5	253	<10	3	140	3	1938	28	10	30	62
20761	0.58	9	5	230	<10	3	129	15	1733	26	9	26	61
20762	0.69	12	10	984	<10	5	176	8	2006	37	14	79	70
20763	0.40	10	7	144	<10	2	137	5	2310	32	9	21	74
20766	0.50	12	12	352	<10	4	130	10	2246	41	14	38	83
20767	0.50	7	9	254	10	3	130	8	1751	33	10	32	64
20768	0.62	9	8	324	11	3	133	5	1961	33	11	38	65
20770	0.49	8	8	222	<10	3	110	<2	2032	31	10	30	67
20771	0.44	7	11	246	13	3	120	4	1818	34	10	30	66
20774	0.69	9	12	652	17	4	134	12	2085	36	11	61	69
20775	0.47	9	6	220	12	3	133	8	1664	27	9	28	60
20776	0.43	9	7	241	<10	3	136	<2	1493	25	9	26	52
20777	0.42	8	6	206	<10	2	129	<2	1552	25	8	25	54
20778	0.60	7	8	213	10	2	135	8	1540	24	8	25	51
20779	0.60	8	7	278	<10	3	131	2	1822	30	10	30	62
20780	0.50	11	8	418	<10	4	151	3	1991	34	12	39	69
20781	0.51	10	7	266	<10	3	132	<2	1703	29	9	30	61
20782	0.79	9	9	354	11	3	139	<2	2016	32	10	43	66
20783	0.27	8	7	189	10	2	125	4	1259	25	8	21	47
20784	0.31	10	8	217	10	2	125	7	1371	26	8	22	53
20785	0.27	8	7	197	<10	2	118	8	1187	23	7	19	48
20786	0.33	8	7	200	12	2	128	7	1383	25	8	23	54
20787	0.43	9	9	389	16	3	157	8	1758	33	10	31	61
20801	0.45	21	7	302	<10	3	214	4	3916	62	14	44	76
20803	0.86	8	11	446	<10	4	168	5	2065	37	11	37	74
20804	0.56	10	11	578	10	5	331	5	2030	46	12	46	69
20806	0.77	7	13	449	<10	4	242	3	1751	40	10	40	73
20807	0.83	9	13	484	14	4	269	3	1737	47	12	45	68
20809	0.54	11	13	707	<10	5	322	5	2139	46	14	50	71
20810	0.45	8	6	109	<10	2	140	<2	1741	24	8	17	64
20811	0.61	11	9	258	10	3	257	<2	1690	29	10	34	49
20812	0.59	10	9	353	<10	4	274	5	1922	34	12	40	62
20813	0.85	9	6	259	10	3	192	5	2379	35	11	35	74
20814	0.67	9	8	464	<10	3	496	4	1775	34	11	38	57
20816	0.61	10	11	315	17	3	440	6	1812	32	11	43	58
20817	0.57	7	7	245	<10	2	297	2	1229	23	8	26	45
20819	0.51	7	8	413	<10	2	1039	5	1207	25	8	31	41
20870	0.66	11	11	632	18	5	287	4	2533	44	17	57	84
20871	0.60	11	15	755	31	6	257	6	2433	48	18	60	83
20872	0.59	9	13	646	23	5	250	9	2362	46	17	70	84
20873	0.29	9	10	318	<10	3	165	3	1589	31	11	34	62
21436	0.52	11	8	352	19	4	255	9	2065	40	12	35	67
21438	0.61	9	10	702	<10	4	360	6	2086	45	12	51	69
21439	0.60	11	10	462	13	4	266	3	2067	39	11	41	64
21440	0.61	9	9	280	<10	4	164	7	1671	39	9	27	68
21441	0.47	10	16	791	20	6	167	<2	2184	55	14	64	71
21442	0.73	6	9	275	<10	4	620	5	1416	28	7	16	59
21443	0.56	10	11	485	12	4	205	5	2135	49	12	35	76
21444	0.15	9	5	127	<10	2	802	<2	685	19	4	14	25
21446	0.80	7	15	441	<10	5	103	5	2189	42	11	35	75
21447	0.20	10	6	164	<10	2	1599	2	805	18	5	13	33
21448	0.11	10	4	85	<10	1	1702	3	557	13	3	10	21
21449	0.64	11	16	456	14	6	136	9	2004	46	12	40	77
21450	0.77	7	15	387	11	5	210	7	1837	41	10	36	65

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEN	WTEN	COMM	MEAS	PH	CT-F
21471	M	35	32.632	104.515	2	15	11/24/76	10			C			
21473	M	35	32.637	104.549	2	15	11/24/76	11	17.0					
21476	M	35	32.630	104.594	2	15	11/24/76	11	17.0		C			
21477	M	35	32.651	104.587	2	15	11/24/76	12	17.0					
21478	M	35	32.651	104.586	2	15	11/24/76	12	17.0					
21479	M	35	32.646	104.619	2	15	11/24/76	12	18.0					
21481	M	35	32.696	104.606	2	15	11/24/76	13	18.0					
21482	M	35	32.696	104.605	2	15	11/24/76	13	18.0					
21483	M	35	32.697	104.601	2	15	11/24/76	13	18.0					
21484	M	35	32.678	104.581	2	15	11/24/76	14	17.0					
21438	M	35	32.662	104.510	2	15	11/24/76	15	16.0		C			
21489	M	35	32.739	104.548	2	15	11/24/76	16	14.0					
21492	M	35	32.710	104.518	2	15	11/24/76	17	14.0					
21495	M	35	32.780	104.376	2	15	11/29/76	11	5.0					
21497	M	35	32.766	104.455	2	15	11/29/76	12	12.0		C			
21500	M	35	32.761	104.430	2	15	11/29/76	13	12.0					
21507	M	35	32.963	104.516	2	15	11/24/76	9	10.0					
21511	M	35	32.957	104.559	2	15	11/24/76	10	12.0					
21512	M	35	32.940	104.549	2	15	11/24/76	10	10.0					
21513	M	35	32.946	104.573	2	15	11/24/76	10	10.0					
21514	M	35	32.939	104.589	2	15	11/24/76	10	12.0					
21516	M	35	32.933	104.560	2	15	11/24/76	11	14.0					
21518	M	35	32.914	104.621	2	15	11/24/76	11	15.0					
21519	M	35	32.911	104.619	2	15	11/24/76	11	15.0					
21521	M	35	32.898	104.609	2	97	11/24/76	12	16.0					
21522	M	35	32.927	104.533	2	15	11/24/76	12	16.0					
21523	M	35	32.908	104.503	2	15	11/24/76	12	16.0					
21528	M	35	32.872	104.544	2	15	11/24/76	13	16.0					
21531	M	35	32.814	104.601	2	15	11/24/76	14	16.0					
21532	M	35	32.812	104.602	2	15	11/24/76	14	16.0					
21535	M	35	32.818	104.504	2	15	11/24/76	14	16.0					
21537	M	35	32.798	104.507	2	15	11/24/76	15	14.0					
21538	M	35	32.768	104.549	2	15	11/24/76	15	14.0					
21543	M	35	32.979	104.844	2	15	11/26/76	10	12.0					
21544	M	35	32.976	104.860	2	15	11/26/76	10	12.0					
21545	M	35	32.972	104.889	2	15	11/26/76	10	12.0					
21546	M	35	32.958	104.935	2	15	11/26/76	11	14.0					
21548	M	35	32.964	104.938	2	15	11/26/76	11	14.0					
21550	M	35	32.981	104.915	2	15	11/26/76	11	15.0					
21554	M	35	32.948	104.990	2	15	11/26/76	12	16.0					
21555	M	35	32.908	104.992	2	15	11/26/76	12	16.0					
21556	M	35	32.902	104.996	2	15	11/26/76	13	16.0					
21558	M	35	32.899	104.909	2	15	11/26/76	13	16.0					
21559	M	35	32.936	104.894	2	15	11/26/76	13	16.0					
21561	M	35	32.945	104.833	2	15	11/26/76	14	16.0					
21563	M	35	32.972	104.771	2	15	11/26/76	14	16.0					
21565	M	35	32.895	104.860	2	15	11/26/76	14	16.0					
21566	M	35	32.894	104.862	2	15	11/26/76	14	16.0					
21568	M	35	32.884	104.853	2	15	11/26/76	14	16.0					
21571	M	35	32.881	104.773	2	15	11/26/76	15	14.0					
21572	M	35	32.906	104.755	2	15	11/26/76	15	14.0					
21573	M	35	32.932	104.770	2	15	11/26/76	15	14.0					
21574	M	35	32.935	104.770	2	15	11/26/76	15	14.0					
21576	M	35	32.847	104.851	2	15	11/26/76	16	12.0					
21578	M	35	32.861	104.908	2	15	11/26/76	16	12.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	L	AG	AL	B
21471	2	5	1	1	4	6			2	1	2.50	<2	4.05	13
21473	1	8	1	4	5	6			2	1	2.30	<2	4.94	17
21476	2	9	1	4	4	6			2	1	2.50	<2	4.94	21
21477	1	8	1	1	5	6			2	1	2.20	<2	4.04	14
21478	1	7	1	1	5	6			2	1	2.60	<2	5.08	20
21479	1	7	1	1	5	6			2	1	2.50	<2	5.07	19
21481	1	3	1	1	4	6			2	1	2.40	<2	4.65	17
21482	1	10	1	1	5	6			2	1	2.50	<2	5.71	23
21483	1	11	1	1	4	6			2	1	2.40	<2	4.92	15
21484	1	7	1	4	4	4			2	1	2.80	<2	4.06	14
21488	2	7	1	1	5	6			2	2	2.50	<2	4.60	19
21489	1	10	1	1	4	6			2	2	2.50	<2	3.69	15
21492	1	8	1	1	5	6			1	2	2.60	<2	5.70	22
21495	1		1	6	4	6			1	1	2.20	<2	3.58	27
21497	1	9	1	8	4	6			1	1	2.40	<2	5.39	33
21500	1	9	1	6	4	6			1	1	2.50	<2	5.66	34
21507	1	6	1	7	4	6			2	1	2.20	<2	3.23	23
21511	1	16	1	7	4	6			2	1	2.00	<2	4.28	33
21512	1	11	1	7	4	6			2	1	1.50	<2	3.63	26
21513	1	12	1	7	4	6			2	1	2.40	<2	5.41	35
21514	1	14	1	7	4	6			2	1	2.30	<2	5.20	30
21516	1	11	1	7	4	6			2	1	2.10	<2	5.35	36
21518	1	9	1	7	5	6			2	1	1.80	<2	3.57	25
21519	1	12	1	7	5	6			2	1	2.00	<2	4.75	29
21521	1	12	1	7	5	6			2	1	1.70	<2	3.89	28
21522	1	17	1	7	4	6			2	1	2.30	<2	3.77	21
21523	1	17	1	7	4	6			2	1	2.40	<2	3.84	21
21528	1	16	1	7	4	6			2	1	2.50	<2	4.00	24
21531	1	8	1	7	5	6			2	1	2.50	<2	5.14	31
21532	1	9	1	7	5	6			2	1	2.50	<2	4.48	28
21535	1	9	1	7	4	6			2	1	2.40	<2	4.06	22
21537	1	9	1	7	5	6			2	1	2.50	<2	5.39	29
21538	1	9	1	7					2	1	2.40	<2	5.50	32
21543	1	16	1	7	5	6			2	1	3.00	<2	5.42	31
21544	1	14	1	7	4	6			2	1	2.80	<2	4.61	29
21545	1	6	1	7	4	6			2	1	2.70	<2	3.99	23
21546	1	6	1	7	4	6			2	1	2.50	<2	4.60	27
21548	1	4	1	7	4	6			2	1	3.00	<2	5.37	32
21550	1	8	1	7					2	1	3.00	<2	4.15	27
21554	1	4	1	7	4	6			2	1	2.90	<2	4.27	24
21555	1	6	1	7	5	6			2	1	2.90	<2	5.58	28
21556	1	14	1	7	5	6			2	1	2.90	<2	5.53	25
21558	1	11	1	7	5	6			2	1	3.00	<2	4.88	29
21559	1	16	1	7	5	6			2	1	2.90	<2	5.12	27
21561	1	9	1	7	5	6			2	1	2.60	<2	5.13	29
21563	1	6	1	7	5	6			2	1	2.70	<2	5.24	30
21565	1	8	1	7	4	6			2	1	3.00	<2	4.03	25
21566	1	16	1	7	4	6			2	1	2.90	<2	4.53	23
21568	1	6	1	7	4	6			2	1	2.70	<2	5.01	27
21571	1	6	1	7	4	6			2	1	2.80	<2	4.97	31
21572	1	6	1	7	4	6			2	1	2.70	<2	4.67	28
21573	1	6	1	7	4	6			2	1	2.80	<2	4.50	30
21574	1	6	1	7	4	6			2	1	2.60	<2	4.35	28
21576	1	6	1	7	4	6			2	1	2.40	<2	3.75	27
21578	1	4	1	7	4	6			2	1	2.20	<2	3.70	22

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
21471	41E	1	6.49	40	5	27	11	1.70	<15	1.43	21	24	1.79	353	<4
21473	45C	1	4.53	38	5	29	14	1.94	<15	1.65	21	28	1.41	418	<4
21476	48E	1	3.40	43	5	27	14	1.88	19	1.89	21	29	0.99	409	<4
21477	46A	1	3.96	39	4	23	8	1.41	<15	1.62	19	22	1.19	258	<4
21478	45E	1	4.58	44	6	33	14	2.03	<15	1.57	24	28	1.67	424	<4
21479	48E	1	4.59	43	5	31	14	1.99	<15	1.74	23	32	1.39	382	<4
21481	48E	1	3.73	45	5	27	12	1.79	25	1.70	23	29	0.89	359	<4
21482	49E	1	4.59	44	7	32	16	2.26	<15	1.91	24	36	1.14	452	<4
21483	47E	1	3.70	47	5	31	12	1.94	<15	1.77	26	27	1.23	416	<4
21484	45E	1	4.45	36	4	26	9	1.65	<15	1.59	20	23	1.32	316	<4
21488	467	1	6.02	45	6	30	14	1.78	<15	1.42	22	27	1.62	373	<4
21489	27E	1	8.90	32	5	27	9	1.47	<15	1.24	16	23	0.96	326	<4
21492	50A	1	1.34	51	8	34	17	2.39	<15	1.98	27	27	0.88	524	<4
21495	427	1	7.82	31	<4	20	13	1.30	<15	1.54	16	24	1.05	276	<4
21497	469	1	4.18	56	7	32	19	2.18	<15	2.04	27	31	0.85	510	<4
21500	42E	1	6.53	49	7	35	18	2.39	<15	1.90	24	33	1.03	560	<4
21507	449	1	8.69	27	4	17	10	1.17	<15	1.40	13	21	0.63	230	<4
21511	421	1	7.34	43	5	24	16	1.65	<15	1.69	21	27	0.89	353	<4
21512	363	1	11.22	32	4	20	12	1.31	<15	1.33	15	26	0.81	226	<4
21513	429	1	7.22	52	7	33	18	2.30	<15	1.70	25	38	1.29	437	<4
21514	449	1	5.95	52	7	31	16	2.09	<15	1.78	25	35	1.12	381	<4
21516	41E	1	6.57	56	7	33	19	2.23	<15	2.14	26	37	1.20	459	<4
21518	40A	1	3.17	29	<4	17	9	1.23	<15	1.62	14	18	0.45	235	<4
21519	424	1	2.99	39	5	25	13	1.77	<15	1.90	19	27	0.73	385	<4
21521	357	1	2.42	37	4	20	12	1.38	<15	1.85	18	22	0.61	260	<4
21522	466	1	3.15	45	5	22	11	1.56	<15	1.65	21	20	0.46	275	<4
21523	462	1	3.90	39	4	22	11	1.54	<15	1.72	19	21	0.47	273	<4
21528	472	1	3.49	44	5	22	12	1.60	<15	1.71	21	21	0.49	296	<4
21531	441	1	7.75	51	7	34	18	2.15	<15	1.64	25	34	1.15	386	<4
21532	433	1	7.11	43	5	28	14	1.82	<15	1.60	22	26	0.96	340	<4
21535	423	1	4.43	49	5	25	11	1.57	<15	1.51	23	23	0.88	317	<4
21537	507	1	2.52	46	6	30	17	2.18	<15	1.97	26	29	0.77	507	<4
21538	501	1	1.35	54	8	32	18	2.32	<15	2.23	28	29	0.73	497	<4
21543	484	1	3.25	54	7	38	17	2.30	<15	1.76	27	30	1.23	476	<4
21544	439	1	6.18	51	6	33	14	1.94	<15	1.55	24	28	1.03	379	<4
21545	357	1	8.10	44	5	30	12	1.71	<15	1.35	21	24	0.98	368	<4
21546	414	1	8.16	48	7	33	13	1.90	<15	1.34	23	27	1.07	432	<4
21548	445	1	8.22	51	7	40	18	2.35	<15	1.56	25	35	1.25	527	<4
21550	429	1	7.69	45	5	31	12	1.92	<15	1.64	23	25	0.81	393	<4
21554	432	1	6.58	43	5	31	12	1.83	<15	1.46	22	25	0.96	373	<4
21555	472	1	3.24	51	7	40	18	2.33	<15	1.76	25	32	1.32	483	<4
21556	435	1	3.18	59	8	42	18	2.38	<15	1.50	29	30	1.33	484	<4
21558	435	1	3.83	52	7	35	16	2.11	<15	1.52	24	27	1.18	430	<4
21559	477	1	1.63	59	8	32	17	2.15	<15	1.64	28	27	0.90	482	<4
21561	472	1	1.66	52	7	32	18	2.14	<15	1.67	27	28	0.99	464	<4
21563	472	1	2.52	60	8	35	19	2.23	<15	1.59	30	25	0.87	496	<4
21565	403	1	4.30	52	6	31	13	1.83	<15	1.28	26	21	1.11	420	<4
21566	413	1	4.48	45	6	31	14	1.99	<15	1.42	24	26	1.22	427	<4
21568	445	1	3.71	56	7	37	16	2.23	<15	1.54	28	27	1.09	444	<4
21571	452	1	4.02	52	6	34	16	2.12	<15	1.57	27	28	1.08	413	<4
21572	437	1	4.73	46	6	29	16	1.96	<15	1.68	23	32	1.34	391	<4
21573	445	1	4.23	47	6	29	14	1.92	<15	1.55	24	25	1.20	355	<4
21574	449	1	4.12	48	5	28	14	1.75	<15	1.56	22	26	1.12	333	<4
21576	424	1	6.18	43	5	24	12	1.55	<15	1.30	20	21	0.63	293	<4
21578	413	1	7.70	37	5	23	12	1.58	<15	1.20	18	21	0.66	298	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
21471	C.57	10	10	396	<10	4	168	3	2361	41	13	46	71
21473	0.63	9	13	541	<10	5	153	5	2323	44	14	59	71
21476	0.92	9	12	526	11	5	141	8	2496	44	13	54	77
21477	C.75	9	8	310	<10	4	143	6	2197	35	12	36	64
21478	0.62	11	13	575	13	5	176	8	2494	47	15	59	76
21479	C.76	11	10	521	11	5	163	6	2566	46	15	57	79
21481	0.71	10	12	401	<10	5	186	6	2448	45	14	46	72
21482	C.66	10	15	614	<10	6	172	<2	2619	52	16	63	83
21483	0.69	10	11	497	12	5	173	6	2621	46	15	53	78
21484	C.75	9	12	371	<10	4	165	7	2626	43	13	41	67
21488	0.65	10	13	479	15	5	218	11	2300	45	14	51	73
21489	0.56	11	11	373	<10	4	272	5	2180	39	12	40	65
21492	C.68	11	14	537	15	6	125	7	2813	51	17	76	85
21495	0.65	7	10	518	38	3	323	9	1764	32	10	51	54
21497	C.67	12	18	827	20	6	190	7	2459	47	15	73	75
21500	0.51	11	19	938	13	6	237	4	2525	49	16	78	78
21507	C.65	9	8	590	14	3	329	6	1708	35	9	43	62
21511	0.64	9	11	1163	13	5	260	11	1956	40	12	120	65
21512	0.54	10	11	704	<10	4	282	8	1566	33	10	64	54
21513	0.54	12	19	884	17	6	200	7	2343	51	15	83	74
21514	0.66	12	16	793	13	6	165	13	2359	48	14	72	75
21516	0.55	11	18	986	19	6	185	11	2310	49	15	83	72
21518	0.73	6	9	347	<10	3	108	6	1814	29	9	36	60
21519	C.75	8	11	706	<10	5	119	2	2031	38	12	87	66
21521	C.70	7	11	820	13	4	113	6	1629	30	10	53	57
21522	C.62	10	10	319	15	4	119	7	2391	40	11	40	68
21523	C.70	9	10	310	<10	4	135	6	2400	38	11	35	68
21528	C.71	10	10	338	15	4	138	5	2500	41	12	44	71
21531	C.55	12	17	766	10	6	237	8	2480	53	15	72	76
21532	C.60	10	13	616	11	5	210	7	2319	45	13	57	70
21535	C.66	9	10	438	14	4	147	9	2172	38	12	43	65
21537	C.72	9	16	679	17	6	145	9	2628	47	15	65	78
21538	0.65	10	16	533	22	6	124	5	2689	50	16	71	81
21543	C.74	12	16	679	22	6	176	9	2990	55	15	71	83
21544	C.70	12	14	600	20	5	270	7	2626	50	14	58	71
21545	0.59	11	13	525	18	4	286	4	2372	46	13	50	63
21546	C.59	11	17	588	21	5	341	13	2227	49	14	52	64
21548	0.64	12	17	794	<10	6	408	6	2657	58	16	73	73
21550	0.62	12	15	577	<10	5	229	7	2957	54	14	54	78
21554	0.73	11	14	496	<10	4	264	4	2711	49	14	50	75
21555	C.75	10	16	773	16	6	204	8	2771	55	16	73	79
21556	0.59	12	16	729	18	6	214	12	2766	57	17	74	85
21558	C.63	11	14	571	<10	5	181	4	2672	51	15	61	75
21559	0.67	10	15	542	17	6	141	10	2664	49	15	65	75
21561	0.71	10	16	616	23	6	145	7	2623	48	15	69	75
21563	C.60	13	21	509	15	6	140	11	2827	53	17	65	87
21565	1.06	12	14	447	13	5	154	8	2768	46	15	50	85
21566	0.62	10	15	525	12	5	170	5	2523	47	14	55	68
21568	0.58	11	15	581	20	6	163	10	2949	53	16	70	94
21571	C.63	12	17	632	16	6	170	9	2871	51	16	61	89
21572	C.67	11	15	565	12	5	143	6	2486	46	13	60	74
21573	0.68	10	12	451	11	5	145	3	2725	46	14	52	85
21574	C.73	10	20	483	14	5	150	13	2398	43	12	55	70
21576	0.53	10	13	387	10	4	153	4	2348	40	12	42	76
21578	C.47	11	13	371	13	4	140	<2	2303	40	13	44	78

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEN	COMM	MEAS	PH	CT-F
21583	M	35	32.944	104.487	2	15	11/29/76	12	1.0					
21584	M	35	32.953	104.495	2	15	11/29/76	12	1.0					
21586	M	35	32.994	104.467	2	15	11/29/76	13	<3.0					
21587	M	35	32.988	104.422	2	15	11/29/76	13	<3.0					
21589	M	35	32.957	104.412	2	15	11/29/76	14	<3.0					
21595	M	35	32.859	104.975	2	15	11/30/76	9	1.0					
21596	M	35	32.853	104.974	2	12	11/30/76	9	1.0	5.0			8.3	800
21597	M	35	32.828	104.932	2	12	11/30/76	9	1.0	5.0			8.2	800
21598	M	35	32.828	104.933	2	15	11/30/76	9	1.0					
21599	M	35	32.824	104.936	2	15	11/30/76	9	1.0					
21601	M	35	32.833	104.438	2	15	11/29/76	13	9.0					
21602	M	35	32.832	104.438	2	15	11/29/76	13	9.0					
21604	H	35	32.815	104.437	2	97	11/29/76	14	7.0					
21605	H	35	32.847	104.437	2	97	11/29/76	14	6.0					
21607	H	35	32.847	104.390	2	97	11/29/76	15	6.0					
21608	M	35	32.678	104.688	2	15	11/30/76	10	5.0					
21609	M	35	32.681	104.688	2	15	11/30/76	10	5.0					
21611	M	35	32.656	104.661	2	15	11/30/76	11	6.0					
21612	M	35	32.642	104.668	2	15	11/30/76	11	6.0					
21613	M	35	32.641	104.681	2	15	11/30/76	12	7.0					
21614	H	35	32.638	104.686	2	97	11/30/76	12	7.0					
21616	H	35	32.632	104.732	2	97	11/30/76	13	8.0					
21617	M	35	32.655	104.705	2	15	11/30/76	13	9.0					
21619	M	35	32.857	104.704	2	15	12/01/76	11	3.0					
21621	H	35	32.810	104.681	2	97	12/01/76	13	5.0					
21622	H	35	32.769	104.653	2	97	12/01/76	14	5.0					
21626	M	35	32.758	104.703	2	15	12/01/76	15	8.0					
21629	M	35	32.823	104.649	2	15	12/01/76	16	5.0					
21631	H	35	32.769	104.090	2	96	12/02/76	10	5.0					
21633	M	35	32.755	104.061	2	15	12/02/76	10	9.0					
21634	M	35	32.793	104.063	2	15	12/02/76	11	8.0					
21635	M	35	32.794	104.063	2	15	12/02/76	11	8.0					
21637	H	35	32.771	104.029	2	96	12/02/76	11	9.0					
21638	H	35	32.792	104.012	2	96	12/02/76	12	10.0					
21639	H	35	32.837	104.005	2	96	12/02/76	12	10.0					
21641	M	35	32.851	104.076	2	15	12/02/76	13	13.0					
21642	H	35	32.852	104.096	2	97	12/02/76	13	13.0					
21643	M	35	32.834	104.088	2	15	12/02/76	13	13.0					
21644	M	35	32.842	104.081	2	15	12/02/76	13	13.0					
21645	H	35	32.870	104.042	2	96	12/02/76	14	14.0					
21649	M	35	32.970	104.083	2	15	12/02/76	15	15.0					
21650	H	35	32.962	104.073	2	96	12/02/76	15	14.0					
21651	M	35	32.757	104.271	2	15	11/24/76	13	21.0					
21652	M	35	32.750	104.232	2	15	11/24/76	14	20.0					
21654	H	35	32.754	104.218	2	96	11/24/76	14	18.0					
21655	H	35	32.783	104.193	2	96	11/24/76	14	17.0					
21656	H	35	32.761	104.164	2	97	11/24/76	15	17.0					
21657	H	35	32.765	104.142	2	97	11/24/76	15	17.0					
21659	H	35	32.804	104.139	2	96	11/24/76	16	16.0					
21662	H	35	32.862	104.140	2	97	11/24/76	16	16.0					
21663	M	35	32.847	104.210	2	15	11/24/76	16	16.0					
21664	H	35	32.857	104.179	2	96	11/24/76	17	15.0					
21665	M	35	32.814	104.224	2	15	11/24/76	17	15.0					
21666	H	35	32.884	104.360	2	97	11/26/76	9	10.0					
21667	M	35	32.901	104.360	2	12	11/26/76	10	14.0	11.0			7.4	4900

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
21583	1	8	1	7	4	6			2	1	1.50	<2	2.94	27
21584	1	8	1	7	5	6			2	1	2.00	<2	3.72	32
21586	1	6	1	7	4	6			2	1	2.80	<2	2.88	27
21587	1	8	1	7	4	6			2	1	2.20	<2	3.32	21
21589	1	8	1	7	5	6			2	1	2.00	<2	3.58	28
21595	1	3	1	7	4	6			2	1	2.80	<2	3.67	20
21596	1	3	1	7	5	6	3	1	2	1	2.70	<2	3.85	25
21597	1	3	1	7	4	5	3	1	2	1	2.50	<2	4.51	29
21598	1	1	1	7	4	6			2	1	2.50	<2	3.58	23
21599	1	3	1	7	4	6			2	1	2.50	<2	4.34	27
21601	1	9	1	6	4	6			1	1	2.80	<2	5.16	35
21602	1	9	1	6	4	6			1	1	2.60	<2	5.25	31
21604	1	7	1	6	4	6			2	1	2.20	<2	3.03	20
21605		7	1	6	4	6			1	1	2.10	<2	2.32	17
21607	2	12	1	6	4	6			1	1	2.00	<2	3.27	25
21608	1	13	1	6	4	6			1	1	2.50	<2	5.64	28
21609	1	9	1	6	4	6			1	1	2.70	<2	4.78	20
21611	1	9	1	1	4	6			2	1	2.50	<2	4.30	30
21612	1	4	1	1	2	1			1	1	2.70	<2	4.33	19
21613	1	9	1	1	5	6			1	1	2.80	<2	4.89	20
21614	1	36	1	1	5	6			1	1	2.30	<2	3.96	29
21616	1	13	1	1	5	6			3	1	2.50	<2	5.07	31
21617	1	9	1	1	5	6			2	1	2.60	<2	4.69	29
21619	1	7	1	1	5	6			2	3	2.70	<2	4.13	29
21621	1	9	1	1	5	6			1	1	2.70	<2	6.04	39
21622	1	12	1	1	4	6			1	1	2.10	<2	3.21	26
21626	1	6	1	1	5	6			1	1	2.80	<2	5.04	30
21629	1	9	1	1	4	4			1	1	2.30	<2	3.91	23
21631	2	6	1	4	4	4			2	1	2.30	<2	3.12	18
21633	2	6	1	4	4	4			2	1	1.90	<2	3.67	29
21634	2	4	1	4	4	4			2	1	2.00	<2	3.86	29
21635	2	4	1	4	4	4			2	1	2.40	<2	4.96	13
21637	2	3	1	4	4	4			2	1	1.40	<2	2.45	11
21638	2	6	1	4	4	4			2	1	1.40	<2	2.81	22
21639	2	4	1	4	4	4			1	1	1.40	<2	2.50	14
21641	2	6	1	4	4	4			2	1	2.10	<2	3.32	18
21642	2	9	1	1	5	6			2	1	2.10	<2	3.91	29
21643	2	9	1	4	5	6			2	1	2.20	<2	4.91	23
21644	2	9	1	1	5	6			2	1	2.40	<2	5.84	39
21645	2	8	1	4	4	4			1	1	2.30	<2	4.39	24
21649	1	9	1	4	4	4			4	1	2.20	<2	3.63	29
21650	1	4	1	4	4	4			2	1	1.50	<2	3.24	28
21651	2	9	1	4	4	4			2	1	1.50	<2	3.51	42
21652	2	7	1	6	4	6			2	1	2.10	<2	3.71	17
21654	2	6	1	6	4	6			1	2	2.30	<2	5.30	26
21655	2	9	1	6	4	6			1	2	2.40	<2	5.17	24
21656	2	4	1	6	4	6			1	2	2.20	<2	3.78	33
21657	2	6	1	4	4	4			1	2	2.70	<2	4.99	33
21659	2	6	1	6	4	6			1	2	2.30	<2	4.38	28
21662	2	7	1	4	4	4			2	2	1.50	<2	4.84	28
21663	2	7	1	6	4	6			2	2	1.40	<2	1.80	21
21664	2	6	1	6	4	6			2	2	3.70	<2	1.73	18
21665	2	6	1	6	4	6			2	2	1.70	<2	1.99	13
21666	1	6	1	6	4	6			1	1	2.00	<2	3.18	20
21667	1	6	1	6	5	6	2	1	1	1	2.10	<2	3.30	13

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSEAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
21583	445	1	10.37	25	<4	17	10	1.11	<15	1.13	12	18	0.48	217	<4
21584	374	1	9.85	35	4	22	12	1.41	<15	1.15	17	23	0.78	283	<4
21586	609	<1	5.49	41	<4	23	7	2.03	<15	1.19	22	16	0.52	368	<4
21587	428	1	10.98	23	<4	19	10	1.33	<15	1.10	14	22	1.01	299	<4
21589	385	1	8.14	29	<4	19	11	1.24	<15	1.25	15	20	0.69	248	<4
21595	243	1	9.21	31	4	29	10	1.60	<15	1.05	16	22	0.94	310	<4
21596	266	1	6.86	35	4	29	10	1.54	<15	1.22	19	25	0.75	300	<4
21597	425	1	3.02	47	4	31	14	1.98	<15	1.56	24	25	1.44	365	<4
21598	409	1	5.37	49	5	28	12	1.53	<15	1.20	24	15	0.71	326	<4
21599	417	1	5.27	46	5	34	13	1.89	<15	1.32	23	26	0.91	400	<4
21601	453	1	4.50	62	6	36	17	2.06	<15	1.62	30	27	1.06	428	<4
21602	445	1	3.97	58	7	36	17	2.20	<15	1.65	29	28	1.18	471	<4
21604	414	1	7.55	32	<4	19	15	1.03	<15	1.30	15	18	0.45	150	<4
21605	334	<1	8.79	30	<4	13	33	0.79	<15	1.06	13	13	0.34	133	<4
21607	372	1	7.28	34	<4	23	17	1.23	<15	1.26	18	18	0.69	157	<4
21608	451	1	3.14	53	8	34	18	2.38	<15	1.82	29	29	0.93	490	<4
21609	455	1	3.65	52	5	29	15	2.01	16	1.72	27	26	0.74	367	<4
21611	409	1	5.38	49	5	33	12	1.94	<15	1.31	23	30	2.10	369	<4
21612	476	1	3.22	41	5	29	11	1.73	<15	1.59	22	23	1.10	331	<4
21613	454	1	2.11	57	6	34	15	2.10	<15	1.75	28	24	1.01	441	<4
21614	355	1	6.03	42	5	26	16	1.79	<15	1.33	21	21	1.94	286	<4
21616	479	1	3.44	50	6	31	15	2.08	<15	1.81	25	26	0.91	353	<4
21617	449	1	4.50	49	6	32	14	1.99	<15	1.53	24	26	1.58	395	<4
21619	438	1	4.14	39	5	30	12	1.76	<15	1.40	21	22	0.95	353	<4
21621	426	2	4.66	55	9	42	20	2.64	<15	1.68	29	34	0.94	542	<4
21622	370	1	7.33	35	<4	23	28	1.44	<15	1.24	17	19	0.51	220	<4
21626	475	1	5.09	57	8	36	15	2.28	<15	1.36	28	27	1.14	475	<4
21629	433	1	4.42	46	5	27	11	1.58	29	1.37	22	21	0.88	327	<4
21631	365	1	3.39	44	4	25	9	1.99	45	1.26	24	16	0.27	283	<4
21633	370	1	1.10	33	<4	23	9	1.61	<15	1.44	19	23	0.37	209	<4
21634	407	1	1.25	38	4	24	11	1.78	<15	1.39	22	24	0.41	270	<4
21635	369	1	3.48	35	6	31	12	2.27	<15	1.57	20	30	0.51	306	<4
21637	285	1	3.98	30	<4	15	7	1.10	<15	1.08	15	15	0.24	173	<4
21638	390	1	2.40	28	<4	14	9	1.05	26	1.24	13	15	0.28	145	<4
21639	229	<1	2.40	28	<4	17	8	1.14	<15	1.09	13	18	0.22	121	<4
21641	430	1	3.68	32	<4	20	10	1.52	<15	1.35	18	15	0.39	223	<4
21642	481	1	5.47	38	4	23	24	1.55	<15	1.25	21	25	0.84	205	<4
21643	465	1	3.68	48	7	32	17	2.24	<15	1.73	25	26	0.63	425	<4
21644	551	1	2.76	52	6	32	22	2.44	<15	1.95	27	33	0.96	596	<4
21645	442	1	0.91	41	4	26	13	1.92	<15	1.69	21	23	0.54	308	<4
21649	395	1	3.16	36	5	24	12	1.70	<15	1.27	18	24	0.80	293	<4
21650	442	1	3.72	39	4	21	10	1.49	<15	1.33	19	20	0.54	232	<4
21651	352	1	4.91	27	4	25	9	1.25	<15	1.50	14	43	1.60	233	<4
21652	487	1	4.78	31	4	21	14	1.50	<15	1.49	18	24	0.68	243	<4
21654	495	1	4.23	54	6	32	18	2.19	<15	1.81	27	30	0.79	445	<4
21655	495	1	0.88	61	6	30	19	2.10	<15	1.89	28	29	0.69	360	<4
21656	423	1	5.85	40	6	23	23	1.69	<15	1.42	15	27	0.68	228	<4
21657	401	1	8.48	48	5	34	12	2.61	<15	1.67	27	33	0.42	313	<4
21659	424	1	1.44	52	5	28	15	2.25	<15	1.74	26	27	0.48	337	<4
21662	573	1	9.77	40	7	29	17	2.09	<15	1.47	19	35	1.12	373	<4
21663	369	<1	14.76	12	<4	11	9	0.74	<15	0.65	5	23	1.09	149	<4
21664	259	<1	20.85	<10	<4	13	6	0.79	<15	0.52	5	24	0.87	170	<4
21665	282	<1	10.11	31	<4	15	7	1.24	<15	0.70	15	24	0.85	198	<4
21666	420	1	10.47	27	4	19	12	1.34	17	1.20	13	21	0.88	251	<4
21667	365	1	8.81	33	5	22	12	1.40	<15	0.93	15	25	1.23	314	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
21583	0.53	9	11	289	<10	3	224	5	1826	34	10	42	75
21584	C.49	10	12	539	<10	4	282	6	1742	34	11	60	69
21586	0.66	16	9	291	<10	3	281	2	3652	59	12	38	132
21587	C.54	10	11	382	22	3	509	<2	1836	38	11	41	64
21589	0.57	9	10	554	15	4	255	4	1703	29	10	55	61
21595	C.49	11	11	407	13	4	335	2	2407	39	12	48	76
21596	0.58	9	11	425	<10	4	323	4	2320	41	13	46	78
21597	C.73	11	12	540	17	5	138	8	2998	47	14	56	94
21598	0.59	11	13	327	<10	4	211	11	2529	41	13	44	76
21599	C.61	13	12	450	<10	5	248	9	2703	47	15	53	85
21601	0.62	15	18	651	<10	6	178	14	2820	50	17	82	88
21602	C.54	12	18	854	11	6	196	5	2603	50	16	74	80
21604	0.53	10	7	487	11	3	251	9	1854	31	10	128	73
21605	C.47	8	4	172	<10	2	381	6	1620	24	7	27	60
21607	0.56	8	9	439	20	3	329	5	1720	30	10	56	60
21608	0.58	11	18	525	12	6	130	3	2784	52	17	66	88
21609	C.68	12	18	361	<10	5	127	6	2809	50	15	53	85
21611	C.55	12	11	463	15	5	350	5	2789	48	15	51	91
21612	0.81	11	12	365	14	4	144	6	2812	42	14	46	99
21613	0.74	13	14	482	17	5	139	9	3156	50	17	60	111
21614	0.53	11	11	347	16	4	196	12	2311	39	13	125	77
21616	0.68	12	12	560	15	5	128	2	2882	47	16	62	95
21617	C.62	12	14	501	10	5	174	8	2731	47	15	57	84
21619	0.61	11	12	435	13	4	155	8	2737	44	14	47	86
21621	0.43	12	22	830	13	7	267	5	2839	57	18	65	89
21622	C.50	11	11	415	<10	3	265	6	2233	34	11	347	72
21626	C.49	13	17	518	17	6	188	10	2953	54	17	63	99
21629	0.59	11	11	403	17	4	153	9	2469	40	13	47	83
21631	C.56	10	8	150	<10	3	75	9	3088	52	11	40	115
21633	0.50	7	11	176	<10	4	79	2	2095	40	10	37	78
21634	C.53	9	10	238	14	4	89	4	2314	45	10	41	76
21635	C.52	3	13	226	<10	6	78	2	2396	54	13	50	87
21637	C.43	6	5	103	14	3	58	9	1790	33	7	23	59
21638	0.57	6	10	111	18	2	91	6	1645	29	7	25	57
21639	C.38	9	10	129	15	2	80	5	1682	30	7	26	66
21641	0.56	7	9	246	<10	3	235	6	2129	43	9	44	73
21642	C.49	10	11	690	14	4	218	5	1918	43	12	146	68
21643	C.58	10	14	361	13	6	92	7	2603	51	15	57	87
21644	0.64	11	17	1217	13	7	142	7	2572	52	17	91	85
21645	C.69	8	10	298	10	5	105	7	2535	45	12	45	84
21649	0.67	7	13	287	10	4	134	2	2199	49	11	36	90
21650	0.67	9	11	249	<10	3	152	6	2243	41	10	31	77
21651	0.79	7	15	269	<10	4	145	8	2040	41	10	26	101
21652	0.66	8	8	281	52	4	136	5	2149	36	11	56	73
21654	0.64	10	18	555	18	6	161	11	2652	57	16	61	89
21655	0.79	10	13	565	22	6	122	12	2606	44	16	76	90
21656	0.61	11	11	477	16	4	181	5	2091	41	11	120	72
21657	0.58	14	14	233	<10	6	86	7	3168	64	14	55	122
21659	C.55	12	13	291	20	5	89	4	3024	54	13	56	95
21662	0.35	12	18	748	17	6	209	7	2012	50	14	65	71
21663	0.28	9	6	164	20	2	793	2	1038	23	6	30	42
21664	C.19	9	3	187	<10	2	361	<2	997	40	6	19	40
21665	0.28	10	7	163	<10	3	894	3	1929	38	8	22	74
21666	C.53	12	11	485	<10	3	403	4	1947	35	11	35	72
21667	C.56	9	12	457	18	4	809	6	1801	38	11	42	72

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEN	COMM	NEAS	PH	CT-F
21670	M	35	32.986	104.361	2	15	11/26/76	11	17.0					
21673	M	35	32.985	104.315	2	15	11/26/76	11	17.0					
21674	M	35	32.986	104.300	2	15	11/26/76	11	19.0					
21678	M	35	32.980	104.225	2	15	11/26/76	12	20.0					
21680	M	35	32.974	104.150	2	96	11/26/76	13	21.0					
21681	M	35	32.944	104.163	2	96	11/26/76	13	21.0					
21682	M	35	32.957	104.128	2	13	11/26/76	13	20.0	16.0	C		7.1	50000
21683	M	35	32.940	104.136	2	13	11/26/76	14	20.0	17.0	C		6.5	50000
21684	M	35	32.922	104.189	2	96	11/26/76	14	20.0					
21685	M	35	32.905	104.183	2	96	11/26/76	14	20.0					
21686	M	35	32.907	104.221	2	15	11/26/76	15	20.0					
21687	M	35	32.887	104.237	2	15	11/26/76	15	21.0					
21689	M	35	32.885	104.228	2	15	11/26/76	15	19.0					
21690	M	35	32.879	104.273	2	15	11/26/76	15	18.0					
21691	M	35	32.876	104.278	2	15	11/26/76	15	17.0					
21692	M	35	32.876	104.283	2	15	11/26/76	16	16.0					
21694	M	35	32.902	104.335	2	15	11/26/76	16	17.0					
21695	M	35	32.887	104.136	2	96	11/26/76	16	18.0					
21701	M	35	32.820	104.913	2	12	11/30/76	10	5.0	6.0			8.3	800
21702	M	35	32.826	104.868	2	12	11/30/76	10	7.0	6.0			8.1	750
21704	M	35	32.758	104.927	2	15	11/30/76	10	8.0					
21705	M	35	32.761	104.876	2	15	11/30/76	11	10.0					
21707	M	35	32.762	104.818	2	15	11/30/76	11	10.0					
21708	M	35	32.767	104.757	2	15	11/30/76	11	10.0					
21709	M	35	32.798	104.761	2	15	11/30/76	11	10.0					
21711	M	35	32.738	104.966	2	15	11/30/76	12	10.0					
21712	M	35	32.691	104.994	2	15	11/30/76	12	10.0					
21713	M	35	32.706	104.963	2	15	11/30/76	12	10.0					
21714	M	35	32.729	104.938	2	15	11/30/76	12	10.0					
21715	M	35	32.738	104.926	2	15	11/30/76	13	10.0					
21717	M	35	32.728	104.896	2	15	11/30/76	13	10.0					
21718	M	35	32.727	104.895	2	15	11/30/76	13	10.0					
21719	M	35	32.722	104.881	2	15	11/30/76	13	10.0					
21720	M	35	32.787	104.802	2	15	11/30/76	14	11.0					
21722	M	35	32.811	104.808	2	15	11/30/76	14	12.0					
21724	M	35	32.806	104.864	2	15	11/30/76	15	10.0					
21727	M	35	32.819	104.780	2	12	11/30/76	16	8.0	6.0			8.1	750
21729	M	35	32.652	104.964	2	15	12/01/76	9	3.0					
21730	M	35	32.652	104.964	2	15	12/29/76	9	3.0					
21731	M	35	32.658	104.926	2	15	12/01/76	9	3.0					
21732	M	35	32.665	104.911	2	15	12/01/76	9	3.0					
21734	M	35	32.651	104.876	2	15	12/01/76	10	1.0					
21735	M	35	32.650	104.876	2	15	12/01/76	10	1.0					
21736	M	35	32.685	104.507	2	15	12/01/76	10	1.0					
21738	M	35	32.694	104.841	2	15	12/01/76	11	1.0					
21739	M	35	32.670	104.869	2	15	12/01/76	11	1.0					
21741	M	35	32.724	104.631	2	15	12/01/76	11	1.0					
21742	M	35	32.720	104.793	2	15	12/01/76	11	1.0					
21743	M	35	32.726	104.771	2	15	12/01/76	12	2.0					
21744	M	35	32.719	104.771	2	15	12/01/76	12	2.0					
21745	M	35	32.702	104.774	2	15	12/01/76	12	2.0					
21746	M	35	32.739	104.751	2	15	12/01/76	12	2.0					
21747	M	35	32.680	104.762	2	15	12/01/76	13	2.0					
21749	M	35	32.657	104.772	2	15	12/01/76	13	2.0					
21750	M	35	32.658	104.765	2	15	12/01/76	13	2.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	L	AG	AL	B
21670	1	6	1	6	4	6			1	1	2.00	<2	3.15	25
21673	1	4	1	4	4	4			1	1	2.20	<2	3.28	34
21674	1	7	1	4	4	4			1	1	1.50	<2	2.81	18
21676	1	6	1	4	4	4			2	1	2.20	<2	2.93	31
21680	1	7	1	4	4	4			2	1	2.20	<2	4.73	25
21681	1	6	1	4	4	4			2	1	2.10	<2	5.20	25
21682	1	6	1	4	5	8		1	2	1	6.20	<2	2.49	22
21683	1	6	1	4	5	8		1	2	1	1.50	<2	2.95	26
21684	1	7	1	4	4	6			2	1	1.50	<2	4.67	49
21685	1	4	1	4	4	6			1	1	2.20	<2	3.63	29
21686	1	6	1	4	4	4			2	1	1.80	<2	4.16	26
21687	1	7	1	4	4	4			2	1	2.10	<2	5.02	48
21689	1	4	1	4	4	4			2	1	1.70	<2	3.60	26
21690	1	6	1	4	4	4			2	1	2.10	<2	3.49	22
21691	1	6	1	4	4	4			2	1	1.80	<2	3.44	20
21692	1	9	1	4	4	4			2	1	2.00	<2	3.49	19
21694	1	7	1	4	4	4			2	1	2.20	<2	4.41	30
21695	1	7	1	4	4	4			2	1	2.20	<2	4.16	25
21701	1	3	1	7	4	6	3	1	2	1	2.70	<2	3.98	21
21702	1	1	1	7	4	6	3	1	2	1	3.00	<2	4.12	16
21704	1	4	1	7	5	6			2	1	2.80	<2	5.07	19
21705	1	8	1	7	5	6			2	1	2.80	<2	5.06	16
21707	1	6	1	7	5	6			2	1	2.30	<2	4.35	16
21708	1	8	1	7	5	6			2	1	2.40	2	3.50	16
21709	1	6	1	7	4	6			2	1	2.20	<2	2.49	<10
21711	1	3	1	7	5	6			2	1	2.80	<2	4.70	19
21712	1	1	1	7	5	6			2	1	2.50	<2	4.83	15
21713	1	1	1	7	5	6			2	1	2.70	<2	4.87	20
21714	1	1	1	7	5	6			2	1	2.80	<2	5.03	18
21715	1	1	1	7	5	6			2	1	2.50	<2	4.71	18
21717	1	3	1	7	5	6			2	1	2.50	<2	5.19	16
21718	1	4	1	7	5	6			2	1	2.50	<2	5.46	16
21719	1	3	1	7	5	6			2	1	2.70	<2	4.10	15
21720	1	4	1	7	4	6			2	1	2.20	<2	2.30	<10
21722	1	3	1	7					2	1	2.40	<2	4.68	14
21724	1	4	1	7					2	1	2.40	<2	4.97	14
21727	1	8	1	7	5	6	3	1	2	1	3.10	<2	4.73	21
21729	1	3	1	7	5	6			2	3	2.80	<2	5.57	20
21730	1	3	1	7	5	6			2	3	2.80	<2	4.71	17
21731	1	4	1	7	5	6			2	3	3.00	<2	6.01	20
21732	1	4	1	7	5	6			2	3	2.50	<2	5.93	19
21734	1	6	1	7	5	6			2	1	2.80	<2	5.35	22
21735	1	9	1	7	5	6			2	1	2.70	<2	5.61	21
21736	1	9	1	7	5	6			2	3	2.80	<2	5.87	17
21738	1	8	1	7	5	6			2	3	2.80	<2	5.47	13
21739	1	11	1	7	5	6			2	3	2.70	<2	5.47	18
21741	1	4	1	7	5	6			2	3	2.70	<2	4.89	18
21742	1	3	1	7	5	6			2	3	2.70	<2	4.15	16
21743	1	4	1	7	5	6			2	3	2.70	<2	4.56	16
21744	1	8	1	7	5	6			2	3	2.60	<2	5.55	17
21745	1	6	1	7	5	6			2	3	2.70	<2	3.86	11
21746	1	9	1	7	5	6			2	3	2.80	<2	6.08	24
21747	1	9	1	7	5	6			2	3	2.50	<2	5.26	22
21749	1	6	1	7	5	6			2	3	3.00	<2	4.83	17
21750	1	4	1	7	5	6			2	3	2.70	<2	5.20	18

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	GA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
21670	443	1	7.54	19	<4	14	14	1.05	<15	1.25	8	15	0.82	216	<4
21673	407	1	2.53	29	4	19	9	1.39	18	1.38	14	24	0.94	228	<4
21674	410	1	2.45	31	<4	16	7	1.23	<15	1.24	15	16	0.57	219	<4
21678	443	1	8.15	31	4	23	8	1.84	<15	0.89	13	25	1.33	261	<4
21680	457	1	6.08	40	6	27	17	2.02	19	1.26	19	28	1.33	339	<4
21681	487	1	4.51	41	7	28	18	2.13	<15	1.43	19	22	1.04	483	<4
21682	438	1	12.08	18	<4	13	8	0.87	<15	0.82	7	18	1.69	302	<4
21683	489	1	6.34	30	4	15	9	0.96	<15	1.04	13	16	0.82	173	<4
21684	423	1	5.49	40	8	29	15	1.85	19	1.29	19	42	2.39	371	<4
21685	452	1	6.14	30	5	21	11	1.50	<15	1.22	14	38	1.83	276	<4
21686	464	1	4.08	39	6	24	12	1.68	<15	1.23	18	31	1.24	327	<4
21687	457	1	4.05	45	7	30	17	2.06	<15	1.41	20	40	1.77	475	<4
21689	437	1	3.08	45	5	20	11	1.40	15	1.20	18	24	1.03	373	<4
21690	393	1	1.74	41	5	20	9	1.46	32	1.25	17	22	0.76	299	<4
21691	429	1	3.33	38	4	20	11	1.54	<15	1.07	15	19	0.87	260	<4
21692	415	1	3.39	42	4	22	10	1.68	23	1.14	19	20	0.89	266	<4
21694	489	1	6.92	43	6	27	15	1.82	<15	1.15	18	30	1.35	345	<4
21695	491	1	5.61	40	5	23	14	1.71	<15	1.23	17	29	1.06	333	<4
21701	401	1	6.78	36	5	26	10	1.50	22	1.12	17	20	0.76	312	<4
21702	407	1	6.53	41	5	30	11	1.70	<15	1.17	19	21	0.86	319	<4
21704	480	1	2.57	55	7	31	15	2.08	<15	1.32	25	23	1.03	407	<4
21705	466	1	3.03	53	6	30	15	2.18	16	1.31	25	23	1.04	384	<4
21707	479	1	5.38	46	5	25	13	1.65	<15	1.23	21	20	0.88	273	<4
21708	411	1	4.25	46	5	22	10	1.42	23	1.10	20	16	0.71	231	<4
21709	327	1	10.37	32	4	16	7	1.05	<15	0.81	14	14	2.71	183	<4
21711	453	1	4.04	47	6	32	14	1.96	<15	1.23	24	21	1.06	383	<4
21712	487	1	1.96	49	6	27	14	1.97	<15	1.50	21	23	0.88	356	<4
21713	472	1	3.40	58	6	27	16	1.89	<15	1.52	23	28	0.91	330	<4
21714	465	1	3.48	53	6	29	16	1.99	<15	1.42	22	28	0.97	314	<4
21715	483	1	3.85	60	7	28	13	1.99	<15	1.40	27	26	0.86	357	<4
21717	463	1	3.14	51	7	32	15	2.02	<15	1.61	22	26	1.02	370	<4
21718	477	1	3.14	53	7	35	16	2.24	21	1.48	25	26	1.23	408	<4
21719	472	1	3.22	45	5	23	10	1.56	<15	1.49	20	20	0.72	277	<4
21720	307	1	9.99	30	<4	15	7	0.96	<15	0.87	12	15	2.70	175	<4
21722	455	1	2.94	48	6	25	13	1.86	<15	1.58	22	22	0.68	333	<4
21724	474	1	3.04	49	6	26	14	1.88	<15	1.60	22	24	0.72	333	<4
21727	402	1	5.94	50	7	34	14	1.92	<15	1.44	21	27	0.91	360	<4
21729	480	1	2.36	56	7	35	19	2.15	<15	1.80	25	28	1.26	376	<4
21730	444	1	3.30	49	6	34	13	1.81	<15	1.72	23	24	1.17	312	<4
21731	476	1	2.53	61	7	38	19	2.37	18	1.86	27	31	1.43	409	<4
21732	505	1	2.07	67	7	35	16	2.23	<15	2.04	28	29	1.10	405	<4
21734	476	1	4.78	58	8	32	16	2.26	<15	1.41	25	27	1.13	448	<4
21735	482	2	3.28	56	6	32	18	2.29	19	1.50	24	26	1.43	399	<4
21736	488	1	2.13	59	7	31	18	2.27	<15	1.72	26	28	1.02	403	<4
21738	496	1	2.83	55	7	28	16	2.15	<15	1.64	25	25	0.80	390	<4
21739	464	1	2.42	56	7	34	15	2.13	<15	1.66	23	27	1.33	381	<4
21741	495	1	3.66	45	6	27	13	1.85	<15	1.77	20	25	1.16	332	<4
21742	425	1	4.43	47	6	25	12	1.63	49	1.31	21	20	1.35	318	<4
21743	439	1	4.14	42	6	29	14	1.86	<15	1.27	19	21	1.26	347	<4
21744	480	1	2.63	52	6	30	16	2.28	<15	1.44	23	24	1.07	402	<4
21745	453	1	4.70	44	6	22	11	1.61	<15	1.24	20	19	0.88	276	<4
21746	452	2	2.68	59	5	34	19	2.57	17	1.59	27	26	0.96	509	<4
21747	472	1	4.96	54	6	29	18	2.13	<15	1.38	24	25	1.12	405	<4
21749	449	1	3.19	49	6	32	13	1.91	<15	1.46	21	22	1.75	353	<4
21750	446	1	4.46	48	7	29	16	2.10	<15	1.43	21	26	1.45	398	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	ND	NI	P	PB	SC	SR	TH	TJ	V	Y	ZN	ZR
21670	C.61	5	8	479	15	2	477	<2	1468	35	7	35	47
21673	0.63	5	11	212	17	3	92	4	1864	42	7	24	75
21674	C.58	7	10	201	11	3	101	4	2060	38	8	20	68
21678	0.34	9	9	213	<10	3	217	6	2236	59	9	26	60
21680	0.44	9	16	527	14	4	233	7	2232	46	11	46	66
21681	C.45	9	15	810	13	5	129	3	2205	47	11	57	64
21682	1.00	7	8	272	<10	2	1048	2	1335	37	6	24	39
21683	1.14	7	7	256	16	2	427	9	1466	30	7	23	47
21684	0.35	9	19	655	25	5	186	10	1937	45	10	45	62
21685	C.41	6	13	420	12	3	203	10	1854	44	8	32	63
21686	C.48	8	13	463	23	4	149	6	2020	41	9	37	61
21687	0.46	8	14	850	28	5	185	8	2185	49	11	60	67
21689	0.46	8	11	385	28	3	146	10	1727	35	8	32	56
21690	C.59	7	11	361	15	3	104	3	1883	36	8	31	68
21691	0.51	8	11	290	23	3	101	6	1847	40	8	32	65
21692	C.51	9	11	297	21	3	94	10	2076	44	8	32	72
21694	C.53	8	17	515	18	4	167	7	2064	45	10	44	64
21695	C.51	8	12	451	21	4	201	10	2027	43	9	43	62
21701	C.54	10	11	434	23	3	261	6	2228	41	10	40	61
21702	0.54	10	13	462	20	4	267	7	2522	44	11	46	67
21704	C.61	9	13	455	25	5	163	11	2468	47	13	56	66
21705	0.55	11	14	500	27	5	137	7	2639	48	13	54	72
21707	0.58	10	14	347	15	4	149	9	2220	41	12	41	62
21708	C.49	12	10	295	22	4	121	8	2226	37	10	35	60
21709	0.35	10	9	185	17	2	153	3	1639	30	8	22	43
21711	0.54	10	13	495	27	5	183	9	2423	47	13	53	66
21712	0.71	10	12	408	32	4	128	10	2723	44	11	54	72
21713	0.69	11	15	426	21	4	126	5	2487	44	12	48	63
21714	C.63	11	14	470	17	5	123	11	2546	44	12	50	65
21715	0.61	12	13	367	20	4	124	12	2764	49	13	46	70
21717	C.71	11	11	520	22	5	192	7	2569	46	12	56	66
21718	0.68	11	16	550	27	5	192	6	2671	50	14	61	71
21719	0.68	11	11	275	17	3	136	6	2335	38	10	36	58
21720	C.37	10	3	158	11	2	144	8	1572	27	7	18	39
21722	0.61	10	11	357	22	4	114	9	2441	42	11	45	63
21724	C.64	9	13	349	25	4	124	9	2366	41	12	48	63
21727	0.61	12	15	518	22	5	316	8	2464	48	12	57	66
21729	C.79	10	26	565	32	5	172	9	2591	48	13	62	67
21730	C.72	10	14	419	22	4	142	3	2423	42	12	47	63
21731	C.67	11	14	675	31	6	199	8	2655	51	14	77	70
21732	C.80	13	16	455	28	5	179	11	2720	52	14	58	72
21734	C.50	11	14	496	22	5	182	9	2538	51	14	57	72
21735	C.64	11	15	597	25	5	145	8	2594	49	14	64	72
21736	C.90	12	16	503	31	5	126	9	2459	48	14	63	68
21739	C.64	10	15	413	22	5	119	9	2568	47	13	54	68
21739	C.70	11	13	582	31	5	188	12	2494	47	13	60	65
21741	0.76	10	13	454	23	4	172	3	2507	43	12	45	64
21742	0.60	10	11	409	25	4	164	6	2199	38	11	44	57
21743	0.57	10	12	488	23	4	188	4	2331	42	12	50	59
21744	0.55	10	14	505	23	5	120	5	2463	48	14	58	68
21745	0.51	11	11	259	21	4	143	7	2346	41	11	36	58
21746	0.51	11	18	587	16	6	131	10	2583	52	15	70	72
21747	0.55	12	16	469	32	5	140	7	2387	46	14	57	67
21749	0.72	9	11	462	28	4	188	9	2506	44	12	53	66
21750	0.58	11	10	453	16	5	132	8	2528	46	13	53	70

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	STEM	COMM	MEAS	PH	CT-F
21751	M	35	32.658	104.764	2	15	12/01/76	13	2.0					
21752	M	35	32.651	104.823	2	15	12/01/76	14	3.0					
21753	M	35	32.646	104.843	2	15	12/01/76	14	3.0					
21754	H	35	32.626	104.869	2	97	12/01/76	14	3.0					
21755	M	35	32.592	104.837	2	15	12/01/76	14	3.0					
21756	M	35	32.599	104.832	2	15	12/01/76	15	2.0					
21757	M	35	32.622	104.847	2	15	12/01/76	15	2.0					
21758	M	35	32.624	104.823	2	15	12/01/76	15	2.0					
21759	M	35	32.618	104.798	2	15	12/01/76	15	1.0					
21760	M	35	32.622	104.754	2	15	12/01/76	16	1.0					
21761	M	35	32.527	104.980	2	15	12/02/76	9	7.0					
21763	M	35	32.541	104.956	2	15	12/02/76	9	8.0					
21765	M	35	32.543	104.955	2	15	12/02/76	10	10.0					
21766	M	35	32.551	104.931	2	15	12/02/76	10	10.0					
21767	M	35	32.564	104.901	2	15	12/02/76	10	11.0					
21768	M	35	32.565	104.902	2	15	12/02/76	10	11.0					
21770	M	35	32.600	104.880	2	15	12/02/76	11	12.0					
21771	H	35	32.618	104.878	2	96	12/02/76	11	12.0					
21772	M	35	32.626	104.912	2	15	12/02/76	11	12.0					
21773	M	35	32.625	104.911	2	15	12/02/76	11	12.0					
21776	M	35	32.608	104.960	2	15	12/02/76	12	14.0					
21777	M	35	32.567	104.957	2	15	12/02/76	12	14.0					
21778	M	35	32.558	104.882	2	15	12/02/76	12	14.0					
21779	M	35	32.546	104.876	2	15	12/02/76	13	15.0					
21780	M	35	32.533	104.797	2	15	12/02/76	13	15.0					
21781	M	35	32.535	104.786	2	15	12/02/76	13	15.0					
21782	M	35	32.541	104.760	2	15	12/02/76	13	15.0					
21783	M	35	32.528	104.757	2	15	12/02/76	14	15.0					
21784	H	35	32.526	104.784	2	97	12/02/76	14	15.0					
21785	M	35	32.557	104.729	2	15	12/02/76	15	12.0					
21786	M	35	32.562	104.732	2	15	12/02/76	15	12.0					
21787	M	35	32.590	104.723	2	15	12/02/76	15	12.0					
21788	M	35	32.589	104.722	2	15	12/02/76	15	12.0					
21790	M	35	32.599	104.718	2	15	12/02/76	16	10.0					
21792	M	35	32.622	104.711	2	15	12/02/76	17	10.0					
21793	M	35	32.581	104.815	2	15	12/03/76	9	6.0					
21794	M	35	32.560	104.807	2	15	12/03/76	9	6.0					
21795	M	35	32.559	104.807	2	15	12/03/76	9	6.0					
21797	M	35	32.563	104.759	2	15	12/03/76	10	10.0					
21798	M	35	32.595	104.751	2	15	12/03/76	10	10.0					
21799	M	35	32.571	104.751	2	15	12/03/76	10	10.0					
21800	M	35	32.569	104.751	2	15	12/03/76	10	13.0					
21901	M	35	32.965	104.066	2	15	12/02/76	16	14.0					
21902	H	35	32.951	104.042	2	96	12/02/76	16	14.0					
21903	H	35	32.944	104.079	2	96	12/02/76	16	13.0		C			
21904	H	35	32.919	104.077	2	96	12/02/76	16	15.0		C			
21912	H	35	32.985	104.015	2	96	12/03/76	13	17.0		C			
21913	H	35	32.995	104.049	2	96	12/03/76	13	17.0		C			
21914	H	35	32.902	104.017	2	96	12/03/76	14	17.0		C			
21915	H	35	32.889	104.062	2	96	12/03/76	15	17.0					
21916	H	35	32.899	104.056	2	96	12/03/76	15	18.0					
21918	M	35	32.717	104.714	2	15	12/03/76	17	10.0					
21920	H	35	32.830	104.706	2	96	12/04/76	7	<4.0					
21924	M	35	32.964	104.595	2	15	12/04/76	8	1.0					
21925	H	35	32.962	104.646	2	97	12/04/76	8	2.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	L	AG	AL	B
21751	1	6	1	7	5	6			2	3	2.70	<2	4.80	19
21752	1	3	1	7	5	6			2	3	2.80	<2	4.69	19
21753	1	9	1	7	5	6			2	2	2.60	<2	5.58	18
21754	1	12	1	7	5	6			2	2	2.70	<2	5.76	20
21755	1	3	1	7	5	6			2	1	2.80	<2	4.19	15
21756	1	4	1	7	5	6			2	2	2.80	<2	5.08	16
21757	1	6	1	7	5	6			2	2	2.50	<2	4.54	16
21758	1	9	1	7	5	6			2	2	2.30	<2	3.76	20
21759	1	4	1	7	5	6			2	2	2.80	<2	5.07	20
21750	1	6	1	7	5	6			2	2	2.60	<2	5.14	21
21761	1	4	1	7	5	6			2	1	2.40	<2	4.48	16
21763	1	4	1	7	5	6			2	1	3.10	<2	5.64	13
21765	1	4	1	7	5	6			2	1	3.10	<2	5.48	19
21766	1	4	1	7	5	6			2	1	2.50	<2	4.56	14
21767	1	17	1	7	5	6			2	1	2.80	<2	5.30	19
21768	1	9	1	7	5	6			2	1	3.00	<2	4.53	13
21770	1	9	1	7	5	6			2	1	2.80	<2	5.64	19
21771	1	8	1	7	5	6			2	1	2.80	<2	4.97	20
21772	1	9	1	7	5	6			2	1	2.80	<2	5.27	21
21773	1	6	1	7	5	6			2	1	3.00	<2	5.33	19
21776	1	3	1	7	5	6			2	1	3.00	<2	5.09	18
21777	1	9	1	7	5	6			2	1	2.50	<2	5.24	13
21778	1	3	1	7	5	6			2	1	2.80	<2	4.54	14
21779	1	4	1	7	5	6			2	1	2.70	<2	4.80	16
21780	1	9	1	7	5	6			2	1	2.80	<2	4.96	16
21781	1	9	1	7	5	6			2	1	2.70	<2	5.13	16
21782	1	11	1	7	5	6			2	1	2.70	<2	5.47	22
21783	1	8	1	7	5	6			2	1	2.70	<2	5.67	22
21784	1	9	1	7	5	6			2	1	2.50	<2	5.18	19
21785	1	9	1	7	5	6			2	1	2.70	<2	5.57	20
21786	1	8	1	7	5	6			2	1	2.60	<2	4.86	19
21787	1	9	1	7	5	6			2	1	2.80	<2	4.77	17
21788	1	8	1	7	5	6			2	1	2.80	<2	5.28	22
21790	1	3	1	7	5	6			2	1	2.40	<2	4.30	17
21792	1	6	1	7	5	6			2	1	2.70	<2	4.12	13
21793	1	8	1	7	5	6			2	1	2.60	<2	3.73	11
21794	1	6	1	7	5	6			2	1	2.80	<2	4.57	15
21795	1	4	1	7	5	6			2	1	2.50	<2	4.69	16
21797	1	6	1	7	5	6			2	1	2.50	<2	4.42	16
21798	1	9	1	7	5	6			2	1	2.60	<2	3.91	14
21799	1	3	1	7	5	6			2	1	2.30	<2	4.09	17
21800	1	3	1	7	5	6			2	1	2.60	<2	4.09	14
21901	1	9	1	4	5	6			2	1	2.00	<2	5.22	26
21902	1	9	1	4	4	6			1	1	2.30	<2	4.35	16
21903	2	9	1	1	5	6			1	1	2.40	<2	4.92	18
21904	2	11	1	1	5	6			1	1	2.20	<2	6.50	29
21912	2	9	1	4	4	6			1	1	1.60	<2	3.32	12
21913	2	8	1	1	5	6			1	1	2.10	<2	3.97	18
21914	2	4	1	4	4	4			2	1	2.00	<2	4.02	15
21915	1	11	1	4	5	6			1	1	2.40	<2	5.78	24
21916	1	12	1	1	5	6			2	1	2.20	<2	4.80	66
21918	1	6	1	7	5	6			2	1	2.60	<2	4.97	19
21920	1	11	1	7	5	6			2	1	2.20	<2	4.11	14
21924	1	9	1	7	4	6			2	1	2.30	<2	4.55	20
21925	1	8	1	7	5	6			2	1	2.10	<2	3.33	13

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	DA	RE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
21751	459	1	3.55	49	5	31	13	1.86	<15	1.37	21	21	1.78	351	<4
21752	465	1	3.51	51	6	29	14	1.95	<15	1.34	25	20	1.28	364	4
21753	471	1	3.18	53	7	30	18	2.18	<15	1.59	23	28	1.30	384	<4
21754	510	2	2.02	66	9	33	17	2.37	<15	1.58	29	26	0.77	537	4
21755	411	1	4.58	45	5	29	12	1.69	<15	1.26	21	19	2.06	311	<4
21756	448	1	3.20	44	6	33	15	2.02	<15	1.41	20	24	1.58	366	<4
21757	473	1	3.16	43	5	25	12	1.77	<15	1.47	20	22	0.82	299	<4
21758	339	1	12.39	39	5	24	13	1.55	<15	0.95	15	37	2.32	252	<4
21759	466	1	3.26	56	6	31	15	2.03	<15	1.41	24	24	1.45	363	<4
21760	453	1	5.58	59	8	30	16	2.11	<15	1.34	26	26	1.47	356	<4
21761	465	1	4.90	42	6	28	12	1.67	<15	1.30	18	21	0.99	322	<4
21763	524	1	3.18	62	8	40	16	2.33	<15	1.42	27	26	0.77	469	<4
21765	477	1	2.37	57	7	34	15	2.19	<15	1.58	24	27	0.97	417	<4
21766	442	1	3.31	45	6	34	14	1.85	17	1.34	21	21	1.70	335	<4
21767	455	1	2.96	47	6	33	15	1.91	<15	1.55	21	24	1.59	364	<4
21768	418	1	4.48	49	5	33	12	1.76	<15	1.37	21	22	2.22	315	<4
21770	478	1	3.83	57	7	36	16	2.21	<15	1.52	25	28	1.25	379	<4
21771	459	1	2.00	44	6	29	16	1.99	<15	1.53	19	22	1.03	362	<4
21772	495	1	2.01	50	6	31	15	2.19	15	1.35	23	22	1.14	370	<4
21773	488	1	2.01	47	6	30	16	2.14	47	1.45	22	25	0.99	352	<4
21776	452	1	1.78	48	7	32	15	2.20	<15	1.48	20	24	1.04	376	<4
21777	482	1	1.63	48	7	36	15	2.14	<15	1.60	20	26	0.82	391	<4
21778	477	1	3.97	50	6	29	12	1.83	<15	1.41	22	20	1.09	324	<4
21779	509	1	3.12	55	6	29	12	1.91	<15	1.49	22	22	1.26	343	<4
21780	478	1	2.77	50	5	27	15	1.99	<15	1.47	21	23	1.20	342	<4
21781	465	1	2.93	41	5	27	14	1.96	<15	1.54	19	25	1.33	368	<4
21782	485	1	3.51	48	7	29	18	2.17	<15	1.59	22	28	1.00	368	<4
21783	478	1	2.73	49	6	34	17	2.18	28	1.56	22	27	1.32	405	<4
21784	464	1	4.97	41	6	26	16	1.98	<15	1.49	19	27	0.95	316	<4
21785	483	1	3.09	49	6	34	18	2.16	<15	1.54	23	26	1.27	389	<4
21786	471	1	2.52	45	5	28	13	1.82	<15	1.46	20	22	1.05	333	<4
21787	458	1	3.85	38	5	25	13	1.82	<15	1.54	17	24	1.25	311	<4
21788	467	1	2.76	51	7	33	17	2.10	<15	1.43	24	25	1.21	381	<4
21790	443	1	4.34	43	5	25	13	1.62	33	1.25	19	20	1.35	313	<4
21792	459	1	8.13	43	6	24	12	1.77	<15	1.17	19	15	0.79	294	<4
21793	423	1	6.13	31	<4	19	9	1.37	51	1.24	13	20	1.04	223	<4
21794	431	1	5.04	42	6	28	13	1.92	<15	1.16	20	20	1.48	345	<4
21795	468	1	4.16	44	5	27	12	1.87	<15	1.27	21	21	1.31	309	4
21797	468	1	3.79	44	5	25	13	1.72	<15	1.30	20	20	1.13	304	<4
21798	438	1	6.90	28	4	22	10	1.60	21	1.16	13	21	1.11	261	<4
21799	400	1	7.48	35	4	22	13	1.61	45	1.09	15	23	1.37	280	<4
21800	467	1	3.74	41	5	22	11	1.53	<15	1.28	18	18	0.87	266	<4
21901	453	1	4.19	50	8	31	18	2.28	<15	1.28	22	24	0.82	441	<4
21902	428	1	0.68	42	5	23	13	1.72	<15	1.37	20	19	0.49	289	<4
21903	471	1	0.99	43	6	25	15	1.93	<15	1.48	21	21	0.63	359	<4
21904	487	2	0.98	60	9	37	23	2.85	<15	1.66	29	28	0.91	517	<4
21912	381	1	1.29	29	<4	15	10	1.09	17	1.24	12	16	0.32	162	<4
21913	454	1	1.32	42	5	22	14	1.69	23	1.25	18	17	0.49	270	<4
21914	357	1	0.35	35	5	23	9	1.87	<15	1.13	18	21	0.36	209	<4
21915	495	1	1.69	54	7	32	19	2.40	<15	1.65	25	25	0.77	430	<4
21916	499	1	2.55	41	5	27	15	2.09	<15	1.54	20	24	0.75	293	<4
21918	434	1	4.09	55	7	34	14	2.14	<15	1.33	25	23	1.53	425	<4
21920	415	1	4.27	43	6	23	12	1.63	<15	1.25	20	18	0.44	263	<4
21924	393	1	6.18	40	5	26	13	1.93	<15	1.23	19	25	1.04	348	<4
21925	374	1	6.03	28	4	18	9	1.15	<15	1.20	13	18	0.62	184	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZA	ZR
21751	0.66	10	9	494	17	4	194	5	2314	43	12	52	64
21752	0.63	12	12	413	26	4	134	12	2536	44	13	47	67
21753	0.65	11	15	560	25	5	136	7	2457	46	13	61	66
21754	0.62	12	16	404	27	6	119	12	2583	53	15	59	72
21755	0.58	10	10	461	19	4	188	11	2197	40	11	45	56
21756	0.62	8	11	527	14	5	187	5	2357	45	13	56	62
21757	0.73	10	12	336	<10	4	127	5	2548	42	11	42	64
21758	0.37	11	11	372	15	4	184	8	1666	37	10	38	50
21759	0.64	11	14	474	24	5	173	5	2439	46	13	52	63
21760	0.49	14	15	386	29	5	135	14	2374	50	14	50	68
21761	0.62	9	12	376	13	4	177	4	2160	40	12	48	58
21763	0.62	12	17	429	20	5	235	8	2741	57	14	65	71
21765	0.62	10	10	453	12	5	149	6	2647	51	13	64	70
21766	0.65	10	13	432	16	4	190	10	2390	44	12	45	63
21767	0.67	9	12	611	19	4	214	8	2269	44	12	56	59
21768	0.68	10	11	419	20	4	208	6	2414	44	12	46	61
21770	0.63	11	13	495	25	5	211	11	2555	51	14	60	69
21771	0.72	10	14	562	28	4	145	9	2488	44	11	56	66
21772	0.68	12	14	471	33	5	151	5	2740	49	12	56	72
21773	0.72	9	10	422	18	5	133	8	2584	47	13	54	69
21776	0.67	12	10	459	22	5	119	7	2745	49	12	51	75
21777	0.69	11	16	409	19	5	195	5	2584	51	11	97	67
21778	0.60	11	13	374	29	4	168	10	2485	47	12	45	68
21779	0.65	11	10	394	26	4	181	9	2535	44	12	47	70
21780	0.74	12	11	437	16	4	136	3	2584	44	11	55	67
21781	0.71	10	13	405	19	4	123	4	2419	41	12	51	63
21782	0.70	10	15	429	21	5	127	2	2596	45	12	55	70
21783	0.71	10	14	582	19	5	169	6	2453	47	13	65	67
21784	0.65	8	15	409	12	5	128	9	2355	42	12	53	66
21785	0.68	11	15	607	24	5	165	3	2421	46	13	62	66
21786	0.65	9	11	466	17	4	147	3	2303	41	11	50	61
21787	0.77	9	11	376	14	4	136	5	2494	41	11	48	68
21788	0.61	11	15	511	25	5	154	10	2423	46	13	61	70
21790	0.63	11	8	389	28	4	141	7	2080	38	11	42	58
21792	0.52	13	9	299	20	4	156	7	2513	45	12	40	67
21793	0.63	8	9	234	<10	3	150	2	2056	33	9	30	60
21794	0.53	10	11	460	23	4	126	<2	2342	43	13	44	63
21795	0.61	9	12	363	16	4	138	10	2358	40	12	44	63
21797	0.65	10	9	400	19	4	137	6	2343	39	11	46	63
21798	0.59	10	9	282	13	4	165	<2	2341	40	10	35	66
21799	0.48	9	11	345	22	4	141	7	1867	36	11	41	55
21800	0.62	9	7	292	21	4	128	7	2103	35	10	39	60
21901	0.40	11	15	642	20	6	124	5	2048	49	12	55	58
21902	0.61	9	9	319	27	4	105	<2	2061	39	10	45	58
21903	0.68	9	10	422	24	5	116	4	2221	41	11	55	66
21904	0.41	12	18	917	36	7	96	11	2610	55	16	65	81
21912	0.50	6	5	196	20	3	79	6	1229	24	6	25	37
21913	0.50	8	10	351	22	4	97	8	1912	39	9	44	55
21914	0.35	10	13	129	17	4	61	4	1990	47	9	36	60
21915	0.53	10	13	679	25	6	113	7	2394	51	14	72	74
21916	0.50	9	12	599	18	5	115	11	2256	48	12	62	67
21918	0.53	13	16	481	23	5	170	10	2446	48	14	55	70
21920	0.44	10	12	284	26	4	125	14	2035	40	11	38	57
21924	0.45	10	16	545	19	5	138	5	2149	42	12	56	63
21925	0.60	8	9	294	<10	3	164	5	1782	29	8	33	57

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	ITEM	CONC	MEAS	PH	CT-F
21926	M	35	32.963	104.650	2	15	12/04/76	8	2.0					
21927	M	35	32.966	104.652	2	15	12/04/76	8	2.0					
21929	H	35	32.978	104.695	2	96	12/04/76	9	8.0					
21930	H	35	32.967	104.652	2	96	12/04/76	9	8.0					
21931	M	35	32.948	104.677	2	15	12/04/76	9	8.0					
21933	M	35	32.964	104.719	2	15	12/04/76	9	9.0					
21934	M	35	32.954	104.718	2	15	12/04/76	9	9.0					
21935	M	35	32.938	104.747	2	15	12/04/76	10	10.0					
21936	M	35	32.920	104.705	2	15	12/04/76	10	10.0					
21938	M	35	32.918	104.652	2	15	12/04/76	10	10.0					
21939	M	35	32.918	104.652	2	15	12/04/76	10	11.0					
21940	M	35	32.922	104.649	2	15	12/04/76	11	12.0					
21941	M	35	32.896	104.660	2	15	12/04/76	11	12.0					
21943	M	35	32.897	104.703	2	15	12/04/76	11	12.0					
21944	M	35	32.896	104.702	2	15	12/04/76	11	12.0					
21946	M	35	32.874	104.673	2	15	12/04/76	12	12.0					
21947	M	35	32.870	104.631	2	15	12/04/76	12	12.0					
21955	H	35	32.301	104.149	2	97	12/04/76	10	12.0		C			
21956	H	35	32.280	104.168	2	96	12/04/76	10	15.0					
21959	M	35	32.345	104.006	2	15	12/04/76	11	14.0					
21960	H	35	32.362	104.008	2	96	12/04/76	12	15.0					
21961	H	35	32.377	104.001	2	96	11/04/76	12	15.0					
21962	H	35	32.371	104.021	2	96	12/04/76	13	15.0					
21963	H	35	32.252	104.016	2	96	12/04/76	14	18.0					
21964	H	35	32.255	104.000	2	96	12/04/76	14	14.0					
21966	H	35	32.296	104.002	2	13	12/04/76	15	14.0	10.0	C		7.9	50000
21976	M	35	32.574	104.670	2	15	12/03/76	10	13.0					
21977	M	35	32.574	104.669	2	15	12/03/76	10	13.0					
21981	M	35	32.508	104.713	2	15	12/03/76	11	15.0					
21982	M	35	32.509	104.714	2	15	12/03/76	11	15.0					
21983	M	35	32.521	104.677	2	15	12/03/76	12	16.0					
21984	M	35	32.518	104.629	2	15	12/03/76	12	16.0					
21985	M	35	32.517	104.630	2	15	12/03/76	12	16.0					
21986	M	35	32.509	104.606	2	15	12/03/76	12	16.0					
21987	M	35	32.506	104.578	2	15	12/03/76	13	16.0					
21988	M	35	32.502	104.578	2	15	12/03/76	13	16.0					
21989	M	35	32.622	104.647	2	15	12/03/76	13	16.0					
21990	M	35	32.623	104.652	2	15	12/03/76	13	16.0					
21991	H	35	32.624	104.707	2	97	12/03/76	14	16.0					
21992	H	35	32.631	104.627	2	97	12/03/76	14	16.0					
21993	H	35	32.669	104.696	2	97	12/03/76	14	16.0					
21994	M	35	32.703	104.711	2	15	12/03/76	14	15.0					
21996	H	35	32.696	104.693	2	97	12/03/76	15	12.0					
21997	M	35	32.702	104.688	2	15	12/03/76	15	12.0					
21999	H	35	32.726	104.648	2	96	12/03/76	16	11.0					
22000	H	35	32.742	104.671	2	96	12/03/76	17	11.0					
32901	H	35	32.514	105.983	2	96	07/13/77	8	29.0					
32902	M	35	32.537	105.980	2	15	07/13/77	10	30.0					
32903	M	35	32.552	105.975	2	15	07/13/77	10	30.0					
32904	M	35	32.562	105.966	2	15	07/13/77	10	30.0					
32905	M	35	32.569	105.948	2	15	07/13/77	10	31.0					
32906	M	35	32.574	105.936	2	15	07/13/77	10	31.0					
32907	H	35	32.577	105.929	2	14	07/13/77	10	31.0	24.9			7.8	210
32908	M	35	32.504	105.934	2	15	07/13/77	10	31.0					
32909	H	35	32.507	105.889	2	97	07/13/77	11	34.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
21926	1	9	1	7	4	6			2	1	2.40	<2	4.18	17
21927	1	14	1	7	4	6			2	1	2.30	<2	4.98	19
21929	1	16	1	7	4	6			2	1	2.20	<2	5.00	20
21930	1	14	1	7	4	6			2	1	2.30	<2	3.89	17
21931	1	16	1	7	4	6			2	1	2.00	<2	3.98	15
21933	1	14	1	7	4	6			2	1	2.60	<2	4.69	19
21934	1	12	1	7	4	4			2	1	1.60	<2	4.57	18
21935	1	14	1	7	4	4			2	1	1.70	<2	3.22	13
21936	1	8	1	7	4	6			2	1	2.00	<2	3.95	16
21938	1	9	1	7	4	6			2	1	2.00	<2	3.46	14
21939	1	12	1	7	4	6			2	1	1.50	<2	4.26	15
21940	1	16	1	7	4	6			2	1	2.20	<2	4.27	14
21941	1	4	1	7	4	6			2	1	1.80	<2	4.25	15
21943	1	9	1	7	4	6			2	1	2.00	<2	3.90	14
21944	1	9	1	7	4	6			2	1	2.30	<2	4.22	14
21946	1	6	1	7	4	6			2	1	1.80	<2	4.49	17
21947	1	11	1	7	4	6			2	1	2.30	<2	4.56	17
21955	1		1	4	4	6			1	1	2.10	<2	2.10	12
21956	1	10	1	6	4	6			1	1	2.10	<2	3.82	15
21959	1	9	1	4	4	4			2	1	2.20	<2	5.57	36
21960	1	6	1	1	4	4			2	1	1.80	<2	3.76	16
21961	1	6	1	4	4	4			2	1	1.70	<2	4.68	24
21962	1	4	1	4	4	4			2	1	1.50	<2	2.92	<10
21963	1	9	1	4	4	6			1	1	2.20	<2	4.63	25
21964	1	10	1	6	4	6			3	1	2.40	<2	4.40	18
21966	1	6	1	4	5	4		1	2	1	2.00	<2	2.35	29
21976	1	6	1	7	4	6			2	1	2.10	<2	4.47	21
21977	1	9	1	7	5	6			2	1	2.30	<2	4.69	18
21981	1	4	1	7	4	6			2	1	1.50	<2	3.31	12
21982	1	4	1	7	4	6			2	1	1.50	<2	3.83	14
21983	1	6	1	7	4	6			2	1	2.10	<2	4.35	22
21984	1	6	1	7	4	6			2	1	2.50	<2	4.86	20
21985	1	4	1	7	4	6			2	1	1.50	<2	3.01	19
21986	1	4	1	7	4	6			2	1	2.30	<2	4.36	19
21987	1	4	1	7	4	6			2	1	2.10	<2	4.32	16
21988	1	6	1	7	4	6			2	1	2.80	<2	4.22	13
21989	1	8	1	7	4	6			2	1	2.30	<2	4.56	21
21990	1	8	1	7	4	6			2	1	2.50	<2	4.30	17
21991	1	17	1	7	5	6			2	1	2.50	<2	6.61	26
21992	1	12	1	7	5	6			2	1	2.20	<2	5.72	22
21993	1	19	1	7	5	6			2	1	2.10	<2	5.55	21
21994	1	11	1	7	4	6			2	1	2.40	<2	5.06	19
21996	1	14	1	7	5	6			2	1	2.40	<2	6.15	25
21997	1	6	1	7	4	6			2	1	2.70	<2	5.51	19
21999	1	9	1	7	5	6			2	1	2.40	<2	5.96	22
22000	1	11	1	7	5	6			2	1	2.40	<2	4.79	18
32901	1	55	1	4	4	6			2	1	2.30	<2	4.75	23
32902		44	1	6	4	6			2	5	2.30	<2	4.42	20
32903	1	50	1	6	4	6			2	1	2.40	<2	4.98	26
32904	1	27	1	6	4	6			2	1	2.40	<2	5.03	30
32905	1	38	1	6	4	6			2	1	1.30	<2	3.44	13
32906	1	41	1	6	4	6			1	2	2.50	<2	3.21	16
32907	1	33	1	6	4	6	1	2	2	2	2.40	<2	4.53	32
32908	1	75	1	6	4	6			1	2	2.00	<2	4.28	24
32909	1	55	1	6	4	6			2	2	2.50	<2	5.01	48

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	PA	BE	CA	CE	CD	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
21926	431	1	7.12	31	4	24	12	1.70	<15	1.20	15	26	1.10	299	<4
21927	404	1	5.39	40	6	29	15	2.07	15	1.37	18	28	1.02	415	<4
21929	412	1	5.50	53	7	29	16	2.06	17	1.37	23	28	1.02	427	<4
21930	371	1	10.70	37	6	22	36	1.62	<15	1.11	15	21	0.89	257	<4
21931	355	1	5.49	34	5	21	11	1.52	<15	1.26	16	22	0.67	299	<4
21933	398	1	6.27	43	6	29	16	2.02	<15	1.23	20	27	0.98	369	<4
21934	389	1	1.84	25	4	21	11	1.51	<15	1.47	13	21	0.70	284	<4
21935	395	1	5.01	26	4	14	7	0.95	<15	1.02	12	14	0.47	148	<4
21936	393	1	6.60	31	5	20	13	1.48	<15	1.15	15	22	0.63	271	<4
21938	386	1	5.95	25	<4	17	9	1.20	<15	1.26	12	19	0.46	232	<4
21939	411	1	3.61	34	4	20	12	1.46	<15	1.42	16	20	0.60	297	<4
21940	440	1	3.09	39	5	21	12	1.60	<15	1.49	18	19	0.54	286	<4
21941	405	1	2.92	35	5	20	12	1.49	<15	1.43	17	20	0.61	303	<4
21943	429	1	2.91	36	4	19	9	1.30	<15	1.35	16	17	0.51	262	<4
21944	415	1	3.60	43	5	23	12	1.67	<15	1.37	19	19	0.60	312	<4
21946	416	1	5.28	34	4	20	15	1.51	<15	1.67	16	25	0.64	320	<4
21947	455	1	3.51	40	4	20	13	1.52	<15	1.86	18	23	0.56	273	<4
21955	508	1	12.04	20	<4	12	14	1.12	21	0.82	8	16	1.04	342	<4
21956	420	1	4.66	34	4	17	11	1.34	27	1.58	16	21	0.44	224	<4
21959	509	1	7.60	44	8	29	27	2.47	<15	1.93	19	36	1.29	354	<4
21960	448	1	2.39	27	<4	13	9	1.06	<15	1.72	12	19	0.41	157	<4
21961	539	1	3.47	36	5	22	14	1.68	<15	1.70	15	33	1.56	342	<4
21962	318	1	0.17	34	<4	14	7	1.30	<15	1.35	15	17	0.15	164	<4
21963	392	1	6.15	40	6	24	14	1.61	<15	1.67	17	30	1.48	337	<4
21964	458	1	2.82	38	4	20	12	1.42	<15	1.73	16	24	0.61	259	<4
21966	352	1	7.43	24	<4	11	12	0.73	15	1.30	9	19	0.56	123	<4
21976	423	1	5.39	37	4	21	12	1.51	<15	1.58	16	39	1.19	285	<4
21977	442	1	4.46	36	5	20	11	1.57	<15	1.91	15	27	0.74	265	<4
21981	374	1	5.21	22	<4	15	7	0.95	<15	1.58	9	26	1.26	167	<4
21982	384	1	6.32	30	4	17	9	1.13	<15	1.73	13	32	1.34	194	<4
21983	404	1	6.56	38	4	22	12	1.37	41	1.68	15	36	1.60	253	<4
21984	458	1	3.67	50	6	26	12	1.64	<15	1.87	21	29	1.32	306	<4
21985	313	1	7.77	29	<4	15	8	0.92	<15	1.33	12	37	2.25	157	<4
21986	395	1	6.10	45	5	24	15	1.53	<15	1.61	18	32	1.91	289	<4
21987	427	1	4.04	31	<4	21	10	1.30	<15	1.92	15	29	1.32	231	<4
21988	448	1	3.41	39	<4	22	9	1.33	<15	1.96	19	23	1.50	257	<4
21989	437	1	7.36	39	4	23	14	1.61	<15	1.80	17	26	1.07	302	<4
21990	461	1	6.58	41	4	22	12	1.61	<15	1.61	17	23	0.89	270	<4
21991	486	2	5.41	59	8	35	22	2.58	<15	2.06	27	34	1.16	463	<4
21992	456	1	4.55	53	7	29	19	2.17	19	2.05	24	29	1.00	320	<4
21993	452	1	4.55	55	7	28	18	2.08	<15	2.04	25	28	0.97	307	<4
21994	530	1	2.59	46	6	23	14	1.79	<15	2.27	20	24	0.62	357	<4
21996	461	2	5.72	51	8	37	19	2.46	<15	1.87	26	32	1.16	436	<4
21997	451	1	3.59	55	7	34	16	2.13	34	2.04	24	28	1.42	446	<4
21999	479	1	3.33	51	7	29	17	2.15	<15	2.44	22	31	0.81	411	<4
22000	499	1	3.24	48	5	32	22	1.79	<15	2.03	21	22	0.67	315	<4
32901	517	1	4.12	40	5	22	14	1.63	<15	1.62	18	24	0.65	255	<4
32902	500	1	5.33	39	5	23	16	1.53	<15	1.54	17	20	0.66	243	<4
32903	500	1	5.19	37	5	26	15	1.81	<15	1.50	18	23	0.81	304	<4
32904	451	1	6.90	36	5	29	20	1.88	<15	1.53	17	25	0.93	338	<4
32905	507	1	2.31	18	<4	10	7	0.73	<15	1.60	8	15	0.33	123	<4
32906	436	1	3.75	42	4	19	11	1.67	<15	1.31	18	15	0.48	282	<4
32907	417	1	8.89	34	5	27	18	1.70	<15	1.33	16	25	1.04	296	<4
32908	484	1	6.52	31	4	21	15	1.39	<15	1.41	15	21	0.77	245	<4
32909	588	2	13.15	41	8	33	23	2.11	<15	1.27	19	31	1.34	386	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NH	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
21926	C.54	9	10	453	17	4	159	2	2112	40	11	48	65
21927	C.50	10	16	598	17	5	122	5	2251	43	12	61	64
21929	C.49	11	16	598	29	5	123	9	2173	44	13	66	64
21930	C.44	10	11	527	12	4	289	7	1787	40	11	176	57
21931	C.53	9	13	306	15	4	109	8	1935	36	10	35	56
21933	C.47	11	16	501	27	5	118	9	2343	47	12	53	69
21934	C.63	6	3	308	14	4	91	<2	1538	32	8	35	48
21935	C.67	7	7	171	19	3	128	10	1495	23	7	15	57
21936	C.51	8	13	403	16	4	126	9	1729	32	10	45	53
21938	C.60	7	11	328	<10	3	118	6	1660	27	8	36	52
21939	C.64	8	9	389	<10	4	117	8	1758	33	10	43	54
21940	0.66	9	9	350	16	4	116	9	2086	37	10	41	61
21941	0.59	9	10	396	12	4	107	6	1702	32	10	46	52
21943	C.67	8	5	315	13	3	113	5	1712	31	9	35	51
21944	C.58	9	9	383	20	4	116	3	2118	39	11	44	63
21946	0.66	8	13	430	15	4	118	<2	1840	33	10	48	53
21947	0.80	8	10	327	15	4	122	8	2047	35	10	41	59
21955	0.44	9	7	228	14	2	165	<2	1236	33	7	50	38
21956	0.57	9	8	273	<10	3	119	<2	1770	32	9	34	57
21959	C.49	9	19	478	29	6	136	6	2073	52	12	64	63
21960	0.83	5	7	224	<10	2	105	5	1421	24	6	30	45
21961	C.53	6	9	446	11	5	94	5	1585	39	9	40	49
21962	0.59	9	3	108	11	2	59	<2	1861	32	7	21	57
21963	1.14	9	13	525	17	4	265	7	1856	37	11	44	54
21964	0.88	8	7	431	14	3	124	<2	1883	33	9	41	58
21966	1.75	6	5	161	<10	2	165	5	1170	20	6	18	41
21976	C.70	8	12	424	12	4	136	5	1790	33	10	41	53
21977	0.65	8	13	289	12	4	113	6	1898	34	10	38	59
21981	C.69	6	7	178	<10	2	116	<2	1417	22	6	22	43
21982	C.76	8	8	237	20	3	134	5	1528	27	8	27	50
21983	C.78	9	11	361	17	4	148	4	1726	32	9	36	53
21984	0.85	10	10	371	17	4	141	9	2102	38	11	44	62
21985	C.62	8	7	217	13	3	127	4	1305	23	6	22	44
21986	0.67	9	9	405	22	4	145	8	1897	35	10	43	58
21987	0.87	7	9	333	20	3	134	7	1793	30	9	37	52
21988	C.88	8	9	291	11	3	129	2	2081	32	9	37	54
21989	0.65	10	11	477	19	4	149	3	2021	36	11	48	57
21990	0.67	9	8	343	14	4	163	2	2149	40	11	35	61
21991	0.52	12	20	666	26	6	136	4	2534	54	16	74	73
21992	C.57	11	15	600	34	5	220	6	2272	44	14	65	68
21993	0.59	11	13	592	33	5	216	11	2231	44	14	65	64
21994	0.83	8	12	409	18	4	135	8	2373	39	12	48	62
21996	C.45	12	18	709	24	6	211	9	2400	53	15	75	71
21997	0.67	12	12	554	28	5	176	7	2510	46	13	60	67
21999	0.72	11	13	514	22	5	136	<2	2413	46	13	61	66
22000	C.70	10	14	416	24	4	151	3	2357	42	11	56	64
32901	0.68	9	15	321	18	4	275	8	2087	47	9	38	56
32902	0.69	9	14	316	21	4	217	12	2109	45	9	38	56
32903	0.65	7	11	412	19	4	231	8	2212	48	10	44	61
32904	0.56	8	16	482	15	4	241	5	2209	49	10	49	59
32905	0.71	<4	7	151	11	2	144	2	992	20	5	23	31
32906	0.55	9	8	201	21	3	154	7	2892	51	8	31	51
32907	0.45	8	15	518	12	4	247	5	2004	47	10	47	59
32908	0.60	7	13	352	15	3	222	7	1724	38	9	35	50
32909	C.23	11	19	629	22	5	326	8	1975	57	12	56	59

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	COMM	MEAS	PH	CT-F
32910	M	35	32.520	105.865	2	15	07/13/77	11	35.0					
32911	M	35	32.535	105.849	2	15	07/13/77	11	35.0					
32912	M	35	32.530	105.832	2	15	07/17/77	12	36.0					
32913	M	35	32.525	105.831	2	15	07/13/77	12	35.0					
32914	M	35	32.521	105.830	2	15	07/13/77	12	35.0					
32915	M	35	32.581	105.844	2	15	07/13/77	12	36.0					
32916	M	35	32.553	105.769	2	15	07/13/77	13	37.0					
32917	M	35	32.547	105.760	2	15	07/13/77	13	34.0					
32918	M	35	32.550	105.770	2	15	07/13/77	13	34.0					
32919	M	35	32.555	105.768	2	15	07/13/77	13	33.0					
32920	M	35	32.563	105.758	2	15	07/13/77	13	28.0		C			
32921	M	35	32.585	105.728	2	15	07/13/77	14	26.0					
32922	M	35	32.583	105.764	2	15	07/13/77	15	24.0					
32923	M	35	32.547	105.659	2	15	07/13/77	16	27.0					
32924	M	35	32.547	105.657	2	15	07/13/77	16	27.0					
32925	M	35	32.542	105.664	2	15	07/13/77	16	29.0					
32926	M	35	32.547	105.695	2	15	07/13/77	16	34.0					
32927	M	35	32.546	105.696	2	15	07/13/77	17	34.0					
32928	M	35	32.517	105.673	2	15	07/13/77	17	30.0					
32929	M	35	32.501	105.711	2	15	07/13/77	17	30.0					
32930	M	35	32.519	105.721	2	15	07/13/77	18	29.0					
32931	M	35	32.522	105.722	2	15	07/13/77	18	29.0					
32932	M	35	32.513	105.732	2	15	07/13/77	18	30.0					
32933	H	35	32.501	105.754	2	97	07/13/77	18	28.0					
32934	M	35	32.501	105.764	2	15	07/13/77	18	28.0					
32935	H	35	32.501	105.784	2	97	07/13/77	16	27.0					
32936	M	35	32.519	105.804	2	15	07/13/77	19	26.0					
32937	H	35	32.529	105.622	2	14	07/15/77	17	32.0	25.0	C		7.3	250
32938	M	35	32.531	105.623	2	15	07/15/77	17	32.0					
32939	H	35	32.613	105.713	2	13	07/16/77	6	12.0	23.5	C		7.5	480
32940	M	35	32.622	105.696	2	15	07/16/77	6	13.0					
32941	M	35	32.621	105.693	2	15	07/16/77	6	13.0					
32942	M	35	32.622	105.667	2	12	07/16/77	7	15.0	13.5	C		7.7	350
32943	M	35	32.623	105.662	2	15	07/16/77	7	18.0					
32944	M	35	32.619	105.653	2	15	07/16/77	7	24.0					
32945	M	35	32.614	105.641	2	15	07/16/77	7	26.0					
32946	M	35	32.614	105.635	2	15	07/16/77	7	27.0					
32947	M	35	32.611	105.629	2	15	07/16/77	7	27.0					
32948	M	35	32.608	105.619	2	15	07/16/77	8	27.0					
32949	M	35	32.604	105.614	2	15	07/16/77	8	28.0					
32952	M	35	32.602	105.436	2	15	07/17/77	15	31.0					
32953	M	35	32.604	105.431	2	15	07/17/77	15	32.0					
32954	M	35	32.608	105.397	2	15	07/17/77	15	32.0					
32955	M	35	32.600	105.386	2	15	07/17/77	16	32.0					
32956	M	35	32.601	105.387	2	15	07/17/77	16	32.0					
32957	H	35	32.622	105.774	2	97	07/28/77	8	29.0					
32958	M	35	32.627	105.772	2	15	07/28/77	9	30.0					
32959	M	35	32.626	105.765	2	15	07/28/77	9	30.0					
32960	M	35	32.658	105.930	2	15	07/28/77	12	35.0					
32961	M	35	32.671	105.893	2	15	07/28/77	12	37.0					
32962	M	35	32.671	105.876	2	15	07/28/77	12	36.0					
32963	M	35	32.684	105.902	2	15	07/28/77	12	37.0					
32964	H	35	32.649	105.896	2	14	07/28/77	12	36.0	31.0			7.8	430
32966	M	35	32.699	105.893	2	15	07/28/77	13	36.0					
32967	M	35	32.697	105.906	2	15	07/28/77	13	36.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
32910	1	30	1	6	4	6			3	2	2.00	<2	4.32	21
32911	1	25	1	6	3	6			3	2	2.20	<2	3.88	21
32912	1	58	1	6	4	6			3	2	2.20	<2	3.69	10
32913	1	25	1	7	4	6			3	2	2.10	<2	3.75	14
32914	1	19	1	7	4	6			3	2	2.30	<2	3.03	14
32915	1	30	1	7	4	6			3	2	2.40	<2	3.15	25
32916	1	30	1	7	4	6			4	2	2.40	<2	3.18	26
32917	1	22	1	7	4	6			4	3	2.50	<2	3.39	28
32918	1	25	1	7	4	6			4	3	2.40	<2	2.67	19
32919	1	25	1	7	4	6			4	4	2.40	<2	2.83	12
32920	1	33	1	1	4	6			4	4	2.70	<2	3.96	19
32921	1	44	1	1	6	4			4	3	2.10	<2	3.35	18
32922	1	27	1	1	4	4			3	3	2.10	<2	4.16	14
32923	1	22	1	7	4	6			3	2	2.60	<2	4.06	15
32924	1	19	1	7	4	6			3	2	2.50	<2	4.17	14
32925	1	27	1	7	4	6			4	2	2.60	<2	4.07	23
32926	1	19	1	2	4	6			4	2	1.90	<2	3.74	18
32927	1	25	1	2	4	6			4	2	2.50	<2	3.75	15
32928	1	30	1	7	4	6			4	2	2.30	<2	4.85	17
32929	1	19	1	1	4	6			3	2	2.20	<2	3.66	18
32930	1	27	1	6	4	6			3	3	2.20	<2	3.41	21
32931	1	14	1	6	4	6			3	3	2.10	<2	3.15	15
32932	1	33	1	7	4	6			3	3	2.50	<2	3.96	28
32933	1	33	1	7	4	6			3	3	2.10	<2	3.82	10
32934	1	36	1	6	4	6			3	3	1.80	<2	3.66	11
32935	1	41	1	6	4	6			2	3	2.10	<2	4.45	21
32936	1	19	1	7	4	6			4	3	2.40	<2	3.63	29
32937	1	86	1	7	6	6	1	2	4	2	2.50	<2	5.82	25
32938	1	22	1	7	4	6			4	2	2.30	<2	4.61	17
32939	1	83	1	7	6	6	1	1	4	1	3.40	<2	5.50	24
32940	1	72	1	7	4	6			3	1	2.80	<2	5.22	24
32941	1	44	1	7	4	6			3	1	2.90	<2	6.16	28
32942	7	22	1	7	1	3	3	1	3	1	2.30	<2	4.24	18
32943	1	30	1	7	4	6			3	1	3.00	<2	5.33	26
32944	1	25	1	7	4	6			3	1	2.60	<2	4.34	15
32945	1	44	1	7	4	6			3	1	2.80	<2	5.44	21
32946	1	22	1	7	4	6			3	1	2.40	<2	4.08	19
32947	1	50	1	7	4	6			3	1	2.60	<2	4.54	15
32948	1	25	1	7	4	6			3	1	1.90	<2	3.57	17
32949	1	30	1	7	4	6			3	1	3.00	<2	4.75	21
32952	1	44	1	6	4	6			2	2	2.60	<2	5.95	20
32953	1	44	1	6	4	6			2	2	2.50	<2	5.33	20
32954	1	50	1	6	4	6			2	2	2.30	<2	5.07	19
32955	1	58	1	6	4	6			2	2	3.00	<2	5.02	19
32956	1	19	1	6	4	6			2	2	2.60	<2	4.38	17
32957	1	41	1	6	4	6			4	1	3.10	<2	6.64	81
32958	1	88	1	6	4	6			4	1	2.50	<2	4.23	47
32959	1	55	1	6	4	6			4	1	2.60	<2	3.85	34
32960	1	36	1	6	4	6			2	1	1.90	<2	3.62	17
32961	1	33	1	6	4	6			2	1	2.80	<2	3.77	20
32962	1	36	1	6	4	6			3	1	2.90	<2	3.42	17
32963	1	61	1	6	4	6			2	1	2.80	<2	4.70	33
32964	1	44	1	6	4	6	1	3	3	1	3.00	<2	4.18	28
32966	1	25	1	6	4	6			4	2	2.10	<2	3.02	16
32967	1	47	1	6	4	6			3	2	2.60	<2	3.46	13

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSEAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
32910	505	1	6.28	38	4	21	14	1.45	<15	1.43	16	15	0.60	247	<4
32911	467	1	7.57	32	4	19	14	1.32	16	1.35	15	20	0.69	226	<4
32912	500	1	4.11	27	<4	18	9	1.41	<15	1.42	14	15	0.38	232	<4
32913	531	1	2.34	32	<4	17	8	1.37	<15	1.54	15	14	0.32	224	<4
32914	476	1	7.89	25	<4	12	9	1.07	<15	1.35	12	13	0.37	185	<4
32915	359	1	7.55	22	4	19	11	1.33	<15	1.24	10	20	1.03	214	<4
32916	375	1	6.74	31	4	19	12	1.16	<15	1.15	14	18	0.71	196	<4
32917	392	1	7.04	27	<4	19	12	1.20	<15	1.28	13	20	0.78	199	<4
32918	346	1	6.94	23	<4	16	8	1.05	<15	1.07	11	14	0.58	174	<4
32919	361	1	7.41	28	<4	15	8	1.08	<15	1.15	12	16	0.59	184	<4
32920	450	1	5.72	33	4	23	13	1.41	<15	1.40	15	20	0.63	232	<4
32921	407	1	3.99	31	<4	18	8	1.26	<15	1.23	15	16	0.38	226	<4
32922	443	1	2.96	36	4	22	12	1.34	<15	1.36	18	19	0.40	246	<4
32923	485	1	5.23	41	5	27	12	1.67	17	1.26	20	15	0.36	317	<4
32924	524	1	3.02	37	4	21	10	1.40	<15	1.53	16	16	0.29	280	<4
32925	461	1	5.99	38	4	24	12	1.52	<15	1.37	16	18	0.44	290	<4
32926	496	1	4.98	28	4	17	10	1.26	<15	1.23	14	15	0.56	229	<4
32927	468	1	4.81	31	<4	21	10	1.40	<15	1.22	16	14	0.39	250	<4
32928	501	1	5.21	37	4	26	16	1.75	<15	1.39	18	21	0.49	274	<4
32929	495	1	4.45	26	<4	18	10	1.33	<15	1.23	14	15	0.52	237	<4
32930	415	1	7.01	30	<4	18	10	1.16	<15	1.15	14	17	0.65	199	<4
32931	406	1	5.22	27	<4	17	10	1.28	22	1.16	12	15	0.52	211	<4
32932	489	1	4.41	38	<4	21	12	1.41	<15	1.35	18	16	0.54	241	<4
32933	492	1	7.73	38	5	19	14	1.40	<15	1.28	16	18	0.58	244	<4
32934	514	1	1.35	30	<4	14	9	1.03	<15	1.64	14	14	0.31	168	<4
32935	497	1	4.32	36	4	21	16	1.44	34	1.56	16	20	0.66	250	<4
32936	382	1	8.90	28	<4	19	12	1.16	<15	1.31	10	22	0.80	199	<4
32937	545	2	1.64	57	6	33	19	2.19	<15	1.71	27	23	0.51	350	<4
32938	516	1	4.52	40	4	26	13	1.57	<15	1.57	18	19	0.40	311	<4
32939	532	2	0.83	55	7	36	17	2.03	19	1.70	27	28	0.32	548	<4
32940	472	2	2.86	54	6	31	24	2.03	<15	1.46	24	26	0.44	415	<4
32941	403	2	6.21	52	7	38	23	2.34	<15	1.25	25	31	0.54	416	<4
32942	339	1	8.85	33	5	27	19	1.55	<15	1.19	15	27	0.61	275	<4
32943	415	2	7.01	50	8	39	19	2.25	18	1.48	22	32	0.73	449	<4
32944	470	1	2.83	41	5	25	13	1.62	16	1.41	18	21	0.37	324	<4
32945	542	2	0.69	49	7	35	16	1.96	<15	1.58	24	25	0.32	433	<4
32946	405	1	6.88	33	<4	29	14	1.49	16	1.27	15	21	0.52	293	<4
32947	459	1	4.12	39	4	30	13	1.71	<15	1.46	17	20	0.40	314	<4
32948	397	1	6.96	28	<4	20	12	1.22	16	1.15	12	16	0.45	197	<4
32949	472	1	2.89	42	5	34	14	1.96	<15	1.55	20	22	0.44	377	<4
32952	539	2	2.45	49	7	36	19	2.22	<15	1.57	24	27	0.64	434	<4
32953	522	1	2.37	51	7	32	21	2.04	24	1.87	25	30	0.55	421	<4
32954	486	1	4.18	47	6	29	15	2.08	<15	1.70	25	26	0.66	368	<4
32955	510	1	1.95	48	6	33	17	2.11	<15	1.81	26	26	0.59	433	<4
32956	505	1	2.32	39	4	25	10	1.68	<15	1.66	20	22	0.51	369	<4
32957	330	1	3.70	57	15	57	26	3.98	<15	1.94	25	50	1.45	283	<4
32958	341	1	10.67	32	7	33	15	2.02	<15	1.24	16	33	1.53	272	<4
32959	358	1	8.76	35	6	29	13	1.83	<15	1.24	16	27	1.30	260	<4
32960	483	1	2.29	30	<4	20	10	1.37	<15	1.68	16	15	0.41	228	<4
32961	408	1	6.76	31	5	26	12	1.53	<15	1.50	16	25	0.67	292	<4
32962	359	1	9.65	28	5	27	18	1.57	<15	1.24	15	22	0.72	262	<4
32963	414	1	7.37	45	7	37	18	2.02	<15	1.55	22	29	0.92	412	<4
32964	321	1	12.35	43	7	42	21	1.97	<15	1.19	21	31	1.11	364	<4
32966	386	1	10.71	22	<4	19	10	1.20	<15	1.18	11	18	0.63	199	<4
32967	435	1	4.62	30	4	20	10	1.44	<15	1.49	17	18	0.45	264	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
32910	0.65	10	9	326	10	3	234	4	1878	39	9	36	53
32911	0.62	9	11	257	<10	3	268	8	1927	38	9	32	55
32912	0.70	7	9	204	12	3	166	4	2328	39	8	25	58
32913	0.74	8	6	160	18	3	141	5	2337	39	7	26	54
32914	0.59	6	7	136	15	2	149	<2	1916	31	7	23	42
32915	0.47	6	10	189	<10	3	256	<2	1865	38	7	25	47
32916	0.43	8	7	202	16	3	173	8	1917	37	8	27	60
32917	0.45	7	10	207	<10	3	185	2	1971	38	8	27	61
32918	0.42	7	6	134	<10	2	164	7	1863	32	7	23	53
32919	0.47	7	11	146	<10	2	172	<2	1903	32	8	21	48
32920	0.60	7	12	299	15	3	181	9	2215	42	9	32	63
32921	0.55	9	7	147	10	3	127	<2	2146	38	8	31	57
32922	0.57	9	13	190	17	3	156	9	1951	40	9	34	55
32923	0.64	11	12	261	17	3	218	6	2825	49	11	43	68
32924	0.78	6	9	193	18	3	189	5	2364	40	9	34	53
32925	0.66	8	13	264	<10	3	220	3	2408	42	10	40	59
32926	0.58	6	11	218	12	3	172	7	1938	36	8	32	50
32927	0.62	8	10	241	17	3	174	6	2349	41	9	33	58
32928	0.66	9	14	323	20	4	198	3	2361	49	11	48	64
32929	0.61	11	9	205	<10	3	168	3	2230	37	9	25	59
32930	0.53	9	9	202	19	3	167	5	1904	35	8	25	60
32931	0.55	9	9	177	<10	2	153	3	2349	38	8	31	60
32932	0.66	8	11	270	13	3	200	7	2378	41	9	31	74
32933	0.58	10	11	386	12	3	236	6	2006	40	9	88	56
32934	0.75	7	4	180	17	2	133	5	1660	28	6	23	43
32935	0.63	7	12	469	14	3	187	7	1918	39	9	42	57
32936	0.50	6	11	267	10	3	249	6	1766	35	8	30	55
32937	0.68	11	15	433	34	5	234	10	2867	56	14	58	82
32938	0.75	8	14	305	14	3	241	8	2314	42	10	41	62
32939	0.79	11	15	599	30	5	758	7	3196	62	14	64	83
32940	0.59	12	17	282	32	5	207	7	2910	57	12	59	77
32941	0.35	12	20	459	19	6	313	2	2700	69	14	55	76
32942	0.38	8	16	315	10	4	207	4	2161	47	10	53	62
32943	0.37	11	23	492	21	5	281	8	2895	71	12	55	73
32944	0.66	9	13	239	10	3	203	4	2682	47	10	41	68
32945	0.73	9	16	399	21	5	384	9	2883	58	14	52	76
32946	0.53	9	13	340	<10	3	293	2	2291	42	10	43	60
32947	0.63	10	14	314	12	4	245	6	2593	47	10	43	69
32948	0.52	7	11	279	16	3	178	8	1895	32	8	34	53
32949	0.65	9	15	376	14	4	260	7	3105	54	12	48	77
32952	0.66	10	16	359	22	5	237	8	2833	58	14	56	83
32953	0.85	9	26	356	14	5	205	8	2546	49	15	55	73
32954	0.77	11	16	394	15	5	167	9	2662	50	15	54	78
32955	0.84	10	25	405	<10	5	198	4	2898	51	15	61	78
32956	0.84	7	10	294	11	4	190	4	2491	43	12	41	65
32957	0.43	11	38	559	16	11	143	9	4430	90	18	60	85
32958	0.51	10	20	266	<10	6	243	6	2113	54	11	37	55
32959	0.52	10	17	223	<10	5	229	9	2082	49	10	32	52
32960	0.78	7	10	288	<10	3	146	5	1969	35	9	33	46
32961	0.86	9	11	357	<10	4	218	6	2265	40	12	42	62
32962	0.65	8	15	412	<10	4	263	5	2118	41	11	42	55
32963	0.62	10	23	751	16	6	242	12	2231	51	14	63	59
32964	0.43	11	24	829	17	6	294	12	1937	52	14	68	54
32966	0.67	8	9	305	<10	3	238	<2	1689	33	9	40	47
32967	0.87	8	10	292	15	3	176	4	2430	38	11	37	59

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEK	COMM	MEAS	PH	CT-F
32968	M	35	32.712	105.911	2	15	07/28/77	14	37.0					
32969	M	35	32.726	105.915	2	15	07/28/77	14	37.0					
32970	M	35	32.737	105.921	2	15	07/28/77	14	36.0					
32971	M	35	32.748	105.912	2	12	07/28/77	15	37.0	28.5	C		7.8	8000
32972	M	35	32.748	105.912	2	11	07/28/77	15	38.0					
32973	M	35	32.746	105.932	2	15	07/28/77	13	38.0					
32974	M	35	32.721	105.929	2	15	07/28/77	16	39.0					
32975	M	35	32.745	105.951	2	15	07/28/77	16	39.0					
32976	M	35	32.599	105.608	2	15	06/16/77	10	30.0					
32977	H	35	32.596	105.591	2	96	07/16/77	10	30.0					
32979	M	35	32.604	105.584	2	15	07/16/77	10	30.0					
32980	M	35	32.606	105.586	2	15	07/16/77	10	30.0					
32981	M	35	32.581	105.591	2	15	07/15/77	10	30.0					
32983	M	35	32.560	105.581	2	15	07/16/77	11	30.0					
32985	M	35	32.563	105.598	2	15	07/16/77	11	30.0					
32986	M	35	32.561	105.599	2	15	07/16/77	11	30.0					
32987	M	35	32.577	105.564	2	15	07/16/77	12	31.0					
32988	M	35	32.586	105.533	2	15	07/16/77	12	31.0					
32989	M	35	32.591	105.524	2	15	07/16/77	12	31.0					
32991	M	35	32.602	105.501	2	15	07/16/77	13	32.0					
32992	M	35	32.569	105.514	2	15	07/16/77	13	32.0					
32994	M	35	32.553	105.559	2	15	07/16/77	15	35.0					
32995	M	35	32.545	105.569	2	15	07/16/77	15	35.0					
32996	M	35	32.530	105.588	2	15	07/16/77	15	34.0					
32997	M	35	32.509	105.521	2	15	07/16/77	16	33.0					
32998	M	35	32.507	105.516	2	15	07/16/77	16	35.0					
32999	M	35	32.510	105.514	2	15	07/16/77	16	33.0					
33035	M	35	32.541	105.430	2	15	07/16/77	17	30.0					
33036	M	35	32.543	105.430	2	15	07/16/77	17	30.0					
33037	M	35	32.499	105.472	2	15	07/17/77	10	34.0					
33038	H	35	32.487	105.454	2	97	07/17/77	10	35.0					
33039	H	35	32.453	105.453	2	97	07/17/77	11	36.0					
33040	H	35	32.448	105.461	2	97	07/17/77	11	36.0					
33041	H	35	32.489	105.431	2	97	07/17/77	11	36.0					
33042	H	35	32.556	105.382	2	96	07/17/77	12	37.0					
33043	H	35	32.564	105.409	2	97	07/17/77	12	35.0					
33044	M	35	32.567	105.447	2	15	07/17/77	13	34.0					
33045	H	35	32.563	105.448	2	13	07/17/77	13	34.0					
33046	M	35	32.553	105.483	2	15	07/17/77	13	33.0					
33047	M	35	32.594	105.440	2	15	07/17/77	13	32.0					
33048	M	35	32.611	105.467	2	15	07/17/77	14	33.0					
33049	M	35	32.607	105.492	2	15	07/17/77	14	33.0					
33050	M	35	32.603	105.439	2	15	07/17/77	14	33.0					
33051	M	35	32.100	105.614	2	15	07/15/77	9	29.0		C			
33052	M	35	32.114	105.580	2	15	07/15/77	10	31.0		C			
33053	M	35	32.103	105.557	2	15	07/15/77	10	31.0		C			
33055	H	35	32.100	105.509	2	97	07/15/77	10	33.0		C			
33057	M	35	32.029	105.486	2	15	07/15/77	11	35.0		C			
33058	M	35	32.029	105.488	2	15	07/15/77	11	35.0		C			
33059	M	35	32.022	105.489	2	15	07/15/77	12	36.0		C			
33061	M	35	32.006	105.483	2	15	07/15/77	12	37.0		C			
33063	M	35	32.025	105.403	2	15	07/15/77	13	37.0		C			
33064	M	35	32.025	105.397	2	15	07/15/77	13	37.0					
33065	M	35	32.032	105.402	2	15	07/15/77	13	37.0					
33067	M	35	32.073	105.431	2	15	07/15/77	14	37.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	REL F	SKY	U	AG	AL	B
32968	1	25	1	6	4	6			3	2	2.80	<2	3.77	21
32969	1	25	1	6	4	6			3	2	2.70	<2	3.75	21
32970	1	13	1	6	4	6			3	2	3.20	<2	3.72	13
32971	1	22	1	6	4	6	3	1	4	2	2.60	<2	3.28	21
32972	1	36	1	6	5	6			4	2	2.80	<2	2.31	21
32973	1	27	1	6	4	6			3	2	2.50	<2	4.01	22
32974	1	52	1	6	4	6			2	2	2.50	<2	3.65	22
32975	1	36	1	4	4	6			2	2	2.90	<2	4.16	24
32976	1	44	1	7	4	6			3	2	2.50	<2	3.38	23
32977	1	61	1	7	4	6			3	2	2.60	<2	4.29	23
32979	1	36	1	7	4	6			3	2	2.80	<2	5.65	23
32980	1	36	1	7	4	6			3	2	2.70	<2	5.39	21
32981	1	19	1	7	6	4			3	2	2.60	<2	4.84	20
32983	1	36	1	7	4	6			3	3	2.20	<2	5.16	14
32985	1	25	1	7	4	6			3	3	2.80	<2	5.78	21
32985	1	19	1	7	4	6			3	3	2.50	<2	5.16	18
32987	1	25	1	7	6	4			3	3	2.50	<2	4.36	<10
32988	1	33	1	7	4	6			3	2	3.10	<2	5.68	14
32989	1	16	1	7	4	6			3	2	2.90	<2	5.28	10
32991	1	55	1	6	4	6			3	2	3.00	<2	5.62	10
32992	1	25	1	1	4	6			3	2	2.80	<2	5.86	12
32994	1	27	1	7	4	6			3	2	2.50	<2	4.26	17
32995	1	30	1	7	4	6			3	3	2.60	<2	4.23	12
32995	1	16	1	7	4	6			3	2	2.90	<2	4.56	<10
32997	1	19	1	7	4	6			3	2	2.50	<2	4.58	13
32998	1	22	1	6	4	6			3	2	2.40	<2	5.59	21
32999	1	22	1	7	4	6			3	2	2.40	<2	4.28	<10
33035	1	44	1	6	4	6			3	2	2.50	<2	5.61	12
33036	1	27	1	6	4	6			3	2	2.30	<2	5.10	<10
33037	1	69	1	6	4	6			2	1	2.50	<2	6.18	<10
33038	1	55	1	6	4	6			3	1	2.40	<2	6.22	12
33039	1	55	1	1	4	6			2	1	2.40	<2	5.38	10
33040	1	69	1	1	4	6			2	1	2.40	<2	5.27	18
33041	1	27	1	7	4	6			3	1	2.40	<2	5.27	11
33042	1	27	1	1	4	6			3	2	2.50	<2	5.22	10
33043	1	41	1	7	6	6			3	2	2.60	<2	6.36	14
33044	1	25	1	7	4	6			3	2	2.70	<2	5.83	14
33045	1	75	1	7	6	6			3	2	3.00	<2	6.60	14
33046	1	41	1	7	4	6			3	2	3.10	<2	6.73	22
33047	1	55	1	7	4	6			2	2	2.40	<2	5.38	14
33048	1	83	1	6	4	6			3	2	2.80	<2	5.50	14
33049	1	38	1	7	4	6			3	2	2.30	<2	5.73	21
33050	1	105	1	7	4	6			3	2	2.70	<2	6.35	19
33051	1	7	1	7	5	6			3	2	2.30	<2	5.87	21
33052	1	12	1	7	5	6			3	2	2.30	<2	4.91	16
33053	1	10	1	7	5	6			3	2	2.00	<2	4.21	12
33055	1	18	3	7	5	7			5	1	2.70	<2	5.28	24
33057	1	0	1	7	2	7			4	1	2.30	<2	3.58	17
33058	1	5	1	7	4	7			3	1	4.70	<2	4.21	13
33059	1	35	3	7	3	7			4	1	4.00	<2	4.39	16
33061	1	14	1	7	4	7			3	2	2.50	<2	4.32	15
33063	1	4	3	7	5	7			2	2	2.90	<2	5.26	15
33064	1	9	1	7	5	7			2	2	2.10	<2	5.30	18
33065	1	9	1	7	5	6			3	2	2.50	<2	5.00	21
33067	1	12	1	7	5	7			2	2	2.40	<2	5.25	19

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CC	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
32968	387	1	6.09	39	E	27	13	1.64	<15	1.40	20	24	0.63	312	<4
32969	360	1	8.73	30	E	29	13	1.61	<15	1.27	17	24	0.97	317	<4
32970	400	1	6.31	32	4	27	13	2.00	<15	1.32	18	22	0.96	336	<4
32971	264	1	16.81	25	E	30	18	1.55	<15	0.93	12	28	1.34	336	<4
32972	242	1	18.87	17	<4	17	9	1.14	<15	0.71	7	19	1.53	278	<4
32973	393	1	6.60	39	E	30	14	2.03	<15	1.30	20	24	0.87	348	<4
32974	360	1	8.23	38	E	28	11	1.49	<15	1.24	17	24	0.86	319	<4
32975	402	1	8.72	41	7	31	16	1.93	<15	1.42	19	29	0.94	369	<4
32976	393	1	6.48	40	E	28	11	1.53	<15	1.36	19	25	0.47	306	<4
32977	422	1	6.27	43	E	32	12	1.66	<15	1.67	21	27	0.73	310	<4
32979	536	1	1.91	45	7	41	14	2.26	<15	1.90	23	32	0.46	437	<4
32980	540	1	1.94	45	7	38	13	2.03	<15	1.88	24	31	0.40	427	<4
32981	475	1	3.82	44	5	34	14	1.98	<15	1.72	22	27	0.49	359	<4
32983	555	1	1.53	44	E	26	13	1.76	<15	1.98	21	27	0.40	340	<4
32985	526	1	0.89	60	7	35	14	2.27	<15	1.97	29	31	0.41	404	<4
32986	491	1	1.79	50	7	32	15	1.99	<15	1.63	25	26	0.44	415	<4
32987	444	1	5.44	47	E	30	12	1.64	<15	1.30	21	18	0.45	318	<4
32988	500	1	2.09	58	7	42	15	2.26	<15	1.43	27	24	0.50	433	<4
32989	494	1	2.23	36	6	32	12	1.97	<15	1.61	18	24	0.45	401	<4
32991	503	1	0.65	52	7	30	15	2.07	<15	1.82	25	26	0.39	443	<4
32992	515	1	1.05	55	7	40	17	2.33	<15	1.47	27	25	0.54	460	<4
32994	433	1	6.15	32	5	26	12	1.52	<15	1.37	15	21	0.74	306	<4
32995	449	1	5.07	37	5	25	11	1.60	<15	1.41	17	18	0.92	305	<4
32996	424	1	6.62	52	6	33	14	1.79	<15	1.28	22	21	0.67	341	<4
32997	444	1	7.06	48	5	29	14	1.65	<15	1.37	21	20	0.80	319	<4
32998	514	1	3.69	48	7	33	16	1.98	<15	1.64	22	23	0.63	424	<4
32999	468	1	4.24	41	5	24	10	1.57	<15	1.47	18	18	0.56	304	<4
33035	539	1	1.77	53	7	33	15	2.00	<15	1.66	24	24	0.50	402	<4
33036	500	1	4.06	45	6	27	14	1.85	<15	1.41	22	22	0.66	323	<4
33037	541	2	1.42	53	8	32	17	2.34	<15	1.66	27	26	0.59	446	<4
33038	525	2	1.83	50	7	31	18	2.27	<15	1.76	24	27	0.70	361	<4
33039	535	1	2.27	49	6	28	16	2.00	<15	1.57	24	21	0.62	337	<4
33040	506	1	5.52	48	6	30	18	2.08	<15	1.40	22	22	0.73	335	<4
33041	548	1	3.55	49	6	27	14	1.91	<15	1.55	22	23	0.62	336	<4
33042	491	1	1.88	53	7	29	15	1.96	<15	1.47	23	21	0.58	331	<4
33043	522	1	0.59	50	7	33	17	2.29	<15	1.87	26	25	0.47	383	<4
33044	534	1	1.60	56	7	33	16	2.20	<15	1.56	25	23	0.46	409	<4
33045	515	2	1.81	56	7	42	18	2.61	<15	1.59	28	25	0.60	410	<4
33046	512	2	1.11	61	8	44	19	2.64	<15	1.61	31	31	0.51	452	<4
33047	505	1	2.70	45	6	28	15	1.91	<15	1.65	21	24	0.45	350	<4
33048	487	2	1.66	58	7	40	17	2.24	<15	1.38	26	23	0.63	424	<4
33049	497	2	1.90	47	6	31	15	2.14	<15	1.37	23	24	0.53	345	<4
33050	522	2	0.71	54	7	35	19	2.48	<15	1.55	27	28	0.52	453	<4
33051	553	2	1.85	52	7	28	22	2.16	<15	1.75	25	24	0.74	427	<4
33052	606	1	1.55	42	5	22	13	1.60	<15	1.66	30	17	0.53	305	<4
33053	575	1	1.65	34	<4	15	9	1.25	<15	1.62	15	17	0.33	226	<4
33055	539	2	3.01	47	4	23	18	1.82	<15	1.80	22	24	0.38	377	<4
33057	397	1	3.53	37	<4	15	8	1.36	<15	1.22	18	17	0.42	219	<4
33058	461	3	2.04	67	<4	14	9	3.96	19	1.52	36	24	0.45	793	5
33059	515	3	3.87	71	4	16	13	3.23	<15	1.43	39	27	0.63	752	<4
33051	450	2	4.16	38	5	20	13	1.59	<15	1.45	19	20	0.49	260	<4
33063	492	3	2.71	58	5	25	15	2.29	<15	1.55	29	25	0.67	411	<4
33064	521	2	3.39	42	5	22	16	1.86	<15	1.52	22	21	0.64	314	<4
33055	502	2	3.40	52	5	24	13	1.99	<15	1.49	24	24	0.68	415	<4
33057	567	2	1.79	55	6	26	15	1.93	<15	1.67	24	15	0.75	433	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
32968	0.78	10	16	451	15	4	215	7	2457	43	13	46	68
32969	0.72	10	18	550	<10	4	260	<2	1999	41	13	50	57
32970	0.92	8	11	494	10	4	230	<2	3130	54	13	48	73
32971	0.45	10	17	493	18	4	394	2	1580	42	11	50	39
32972	0.49	10	19	466	<10	3	478	4	1305	29	8	48	37
32973	0.90	9	15	535	<10	5	237	6	2742	55	13	48	67
32974	0.71	9	18	439	<10	4	236	6	1803	40	12	44	52
32975	0.87	10	18	485	<10	5	269	4	2336	53	13	48	60
32976	0.62	10	11	318	11	4	238	3	2158	42	12	43	66
32977	0.73	10	12	422	16	4	268	5	2199	41	13	46	63
32979	0.85	10	17	308	13	6	322	4	2867	51	15	60	79
32980	0.97	10	15	278	11	5	343	3	2694	52	15	50	73
32981	0.85	9	12	343	10	5	279	7	2726	47	13	52	71
32983	1.04	9	11	275	<10	4	209	2	2375	43	13	46	69
32985	1.01	12	14	343	16	6	207	11	3101	57	16	56	93
32986	0.80	12	14	391	18	5	262	8	2422	47	15	54	72
32987	0.63	10	13	358	21	4	258	10	2086	38	11	47	54
32988	0.70	11	16	378	24	5	298	7	2670	55	14	60	70
32989	0.72	9	13	295	<10	4	244	<2	2444	45	12	52	56
32991	0.82	11	11	402	19	5	192	7	2757	49	15	51	73
32992	0.62	11	17	412	21	6	326	7	2572	52	15	63	68
32994	0.67	8	11	269	<10	4	223	<2	2123	37	11	40	56
32995	0.72	10	9	233	10	4	192	2	2335	38	10	38	55
32996	0.65	11	15	348	23	4	264	12	2298	45	12	48	61
32997	0.69	11	12	327	16	4	235	9	2101	39	12	44	59
32998	0.80	10	16	434	24	5	261	6	2269	44	13	54	62
32999	0.77	8	10	219	17	3	184	6	2274	39	10	40	57
33035	0.83	11	14	334	25	5	232	7	2462	47	13	50	66
33036	0.65	9	11	367	17	4	193	10	2138	43	12	46	59
33037	0.73	11	18	328	18	6	178	7	2546	51	15	58	71
33038	0.77	10	16	466	20	5	153	7	2425	48	15	66	69
33039	0.80	10	13	385	24	4	170	9	2452	46	12	50	64
33040	0.68	10	13	420	31	5	203	14	2487	46	13	55	69
33041	0.78	9	12	276	13	4	178	9	2540	45	12	47	66
33042	0.65	9	12	470	38	5	146	12	2307	43	12	56	61
33043	0.76	10	19	415	18	6	195	<2	2608	50	16	63	77
33044	0.77	11	17	350	21	5	234	10	2687	51	15	57	73
33045	0.67	12	17	502	24	7	306	10	2834	59	17	68	81
33046	0.65	11	16	437	22	7	266	7	2994	63	18	70	85
33047	0.76	8	12	334	<10	4	214	3	2436	44	13	52	64
33048	0.65	12	15	350	28	5	238	10	2562	52	14	59	70
33049	0.55	8	17	298	24	5	189	8	2500	55	14	49	74
33050	0.58	10	16	397	16	6	240	7	2947	63	16	55	86
33051	0.70	12	19	411	28	5	154	6	2545	52	14	53	81
33052	0.88	10	10	275	26	3	174	4	2385	42	10	36	66
33053	0.86	6	8	160	15	3	148	4	2030	37	8	28	52
33055	0.90	12	9	499	17	4	183	8	2392	45	11	51	75
33057	0.68	16	9	206	12	2	155	6	1701	35	9	30	125
33059	1.08	81	5	234	17	2	137	2	3596	35	14	103	455
33059	1.03	64	9	315	27	2	168	5	3239	41	14	196	448
33061	0.78	13	8	332	12	3	172	7	2224	43	10	35	100
33063	0.64	22	12	339	22	4	152	10	2785	55	13	56	161
33064	0.64	14	15	328	18	4	178	10	2140	44	12	45	120
33065	0.64	16	14	364	21	4	175	10	2602	51	12	46	137
33067	0.73	11	14	473	25	4	167	18	2531	48	12	47	74

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	COMM	MEAS	PH	CT-F
33068	H	35	32.097	105.431	2	97	07/15/77	14	38.0		C			
33069	M	35	32.101	105.464	2	15	07/15/77	15	38.0					
33070	M	35	32.100	105.464	2	15	07/15/77	15	38.0					
33071	M	35	32.107	105.450	2	15	07/15/77	15	37.0					
33072	M	35	32.107	105.399	2	15	07/15/77	16	37.0					
33073	M	35	32.132	105.421	2	15	07/15/77	16	38.0					
33074	M	35	32.145	105.429	2	15	07/15/77	16	38.0					
33075	M	35	32.151	105.396	2	15	07/15/77	16	37.0					
33076	H	35	32.157	105.397	2	97	07/15/77	16	37.0					
33078	M	35	32.154	105.441	2	15	07/15/77	17	36.0		C			
33079	M	35	32.160	105.459	2	15	07/15/77	15	36.0					
33080	M	35	32.169	105.447	2	15	07/15/77	17	36.0		C			
33082	H	35	32.211	105.463	2	96	07/15/77	18	37.0					
33083	H	35	32.241	105.492	2	96	07/15/77	18	37.0					
33084	H	35	32.218	105.434	2	15	07/15/77	18	36.0					
33096	H	35	32.241	105.389	2	96	07/15/77	19	35.0					
33087	M	35	32.208	105.382	2	15	07/15/77	19	33.0					
33088	H	35	32.198	105.391	2	97	07/15/77	19	36.0					
33089	M	35	32.061	105.400	2	15	07/15/77	8	27.0					
33091	M	35	32.159	105.602	2	15	07/16/77	9	30.0		C			
33093	H	35	32.188	105.561	2	13	07/16/77	10	32.0	25.8			7.5	280
33094	M	35	32.189	105.542	2	15	07/16/77	11	35.0					
33095	M	35	32.189	105.516	2	15	07/16/77	11	37.0					
33096	M	35	32.180	105.513	2	15	07/16/77	11	37.0					
33097	M	35	32.165	105.514	2	15	07/16/77	12	37.0					
33098	M	35	32.155	105.505	2	15	07/16/77	12	36.0					
33099	M	35	32.166	105.536	2	15	07/16/77	12	37.0					
33100	M	35	32.166	105.555	2	15	07/16/77	12	36.0					
33101	H	35	32.211	105.566	2	97	07/16/77	13	37.0					
33102	H	35	32.247	105.504	2	97	07/16/77	13	37.0					
33103	H	35	32.231	105.564	2	97	07/16/77	13	38.0					
33104	M	35	32.192	105.580	2	15	07/16/77	13	37.0					
33105	H	35	32.231	105.611	2	96	07/16/77	14	36.0		C			
33106	H	35	32.240	105.635	2	97	07/16/77	14	37.0		C			
33108	M	35	32.226	105.657	2	15	07/16/77	14	37.0		C			
33109	M	35	32.191	105.641	2	15	07/16/77	15	37.0					
33110	M	35	32.176	105.641	2	15	07/16/77	15	38.0					
33111	M	35	32.217	105.688	2	15	07/16/77	15	38.0					
33112	M	35	32.233	105.722	2	15	07/16/77	15	38.0					
33113	M	35	32.247	105.717	2	15	07/16/77	16	38.0					
33115	M	35	32.191	105.736	2	15	07/16/77	17	37.0					
33117	M	35	32.175	105.773	2	15	07/16/77	17	37.0					
33118	M	35	32.160	105.813	2	15	07/16/77	17	37.0		C			
33120	M	35	32.153	105.816	2	15	07/16/77	18	37.0					
33121	M	35	32.122	105.825	2	15	07/16/77	18	35.0					
33123	H	35	32.292	105.482	2	97	07/17/77	9	28.0					
33124	H	35	32.312	105.464	2	96	07/17/77	9	29.0					
33125	M	35	32.318	105.432	2	15	07/17/77	10	30.0					
33126	M	35	32.335	105.417	2	15	07/17/77	10	30.0					
33127	M	35	32.344	105.436	2	15	07/17/77	10	32.0					
33129	M	35	32.357	105.443	2	15	07/17/77	11	35.0					
33130	M	35	32.361	105.448	2	15	07/17/77	11	35.0					
33131	M	35	32.369	105.462	2	15	07/17/77	11	35.0					
33132	M	35	32.378	105.471	2	15	07/17/77	11	36.0					
33134	M	35	32.400	105.469	2	15	07/17/77	12	37.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CANT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	L	AG	AL	B
33068	9	9	1	7	5	7			3	2	2.40	<2	5.56	24
33069	1	14	1	7	5	7			3	2	2.30	<2	4.82	19
33070	1	20	1	7	5	6			3	2	2.30	<2	4.69	16
33071	1	3	1	7	5	7			3	2	2.70	2	4.65	15
33072	1	5	1	7	5	7			2	2	2.40	<2	4.16	14
33073	1	8	1	7	5	7			3	2	2.30	<2	4.56	15
33074	1	14	1	7	5	7			3	2	2.50	<2	5.93	21
33075	1	7	4		5	7			3	2	2.60	<2	3.83	12
33076	1	9	4		5	7			2	2	2.40	<2	6.02	30
33078	1	11	4		5	7			3	2	2.30	<2	5.26	19
33079	1	3	1	7	5	7			2	2	2.60	<2	5.56	17
33080	1	6	1	7	5	7			2	2	2.40	<2	6.51	25
33082	1	9	1	7	5	7			3	2	2.20	<2	4.99	15
33083	1	9	1	7	5	7			2	2	2.40	<2	4.59	18
33084	1	11	1	7	5	7			4	1	2.10	<2	4.46	16
33086	1	9	1	7	5	7			2	2	2.00	<2	3.86	12
33087	1	5	1	7	5	7			2	2	2.20	<2	3.82	14
33088	1	7	1	7	5	7			3	2	1.90	<2	5.21	17
33089	1	9	1	7	5	7			3	1	2.30	<2	5.36	18
33091	1	5	1	7	5	6			3	1	2.40	<2	5.05	19
33093	1	8	1	7	5	6	1	4	2	1	2.50	<2	6.10	25
33094	1	9	1	7	5	6			3	1	2.10	<2	4.26	16
33095	1	13	1	7	5	6			3	2	2.00	<2	3.78	14
33096	1	14	1	7	5	6			3	2	2.20	<2	5.04	21
33097	1	13	1	7	5	7			3	2	2.40	<2	5.09	19
33098	1	16	1	7	5	7			3	2	2.20	<2	5.35	21
33099	1	12	1	7	5	7			4	2	2.30	<2	5.26	22
33100	1	5	1	7	5	7			2	2	2.20	<2	5.51	25
33101	1	8	1	7	5	7			3	2	1.90	<2	4.66	13
33102	1	6	1	7	5	6			2	2	2.30	<2	5.08	22
33103	1	7	1	7	5	7			3	2	2.50	<2	4.84	19
33104	1	4	1	7	5	7			3	2	2.40	<2	4.52	17
33105	1	7	1	7	5	7			2	2	2.10	<2	3.84	12
33106	9	8	1	7	5	7			3	2	2.10	<2	5.02	17
33108	9	9	1	7	4	6			2	2	2.30	<2	5.16	18
33109	1	13	1	7	5	7			3	2	2.60	<2	6.05	24
33110	1	9	1	7	5	6			4	2	2.10	<2	4.97	20
33111	1	16	1	7	5	7			4	2	2.40	<2	4.74	20
33112	1	7	1	7	5	7			3	2	2.40	<2	4.77	16
33113	1	9	1	7	5	7			4	2	2.40	<2	5.59	18
33115	1	13	1	7	5	7			4	2	2.50	<2	6.21	27
33117	1	15	1	7	4	6			4	2	2.30	<2	5.63	23
33118	9	8	1	7	5	7			3	2	2.10	<2	4.68	16
33120	1	11	1	7	5	7			3	2	2.40	<2	5.05	16
33121	1	8	1	7	4	6			3	2	2.40	<2	4.18	15
33123	1	11	1	7	5	7			4	1	2.20	<2	4.98	18
33124	1	8	1	7	5	7			1	1	2.20	<2	3.35	16
33125	1	8	1	7	5	7			4	1	2.70	<2	4.22	17
33126	1	6	1	7	2	7			4	1	2.20	<2	4.23	19
33127	1	15	1	7	4	7			4	2	2.50	<2	4.64	19
33129	1	9	1	7	5	7			4	2	2.40	<2	4.72	20
33130	1	9	1	7	5	7			4	2	2.40	<2	4.23	19
33131	1	4	1	7	2	7			4	2	2.20	<2	4.18	18
33132	1	9	1	7	5	7			4	2	2.30	<2	4.21	17
33134	1	3	1	7	1	7			4	2	2.50	<2	3.83	17

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	P	LA	LI	MG	MN	MO
33068	509	2	5.31	47	6	30	24	2.15	<15	1.58	22	24	1.06	429	<4
33069	574	2	2.93	43	5	22	14	1.58	<15	1.58	20	17	0.83	351	<4
33070	565	1	2.55	42	5	22	12	1.59	<15	1.57	19	16	0.84	324	<4
33071	534	1	3.91	57	5	26	13	1.81	<15	1.35	25	17	0.87	297	<4
33072	552	1	2.77	39	4	18	10	1.46	<15	1.53	18	16	0.47	247	<4
33073	563	1	2.95	44	5	22	14	1.64	<15	1.52	21	17	0.53	300	<4
33074	581	1	2.61	56	7	29	24	2.30	39	1.75	26	25	0.90	524	<4
33075	526	1	5.05	47	6	21	11	1.80	<15	1.31	21	17	0.62	276	<4
33076	549	1	3.79	58	8	31	22	2.47	<15	1.69	27	26	1.00	556	<4
33078	574	1	2.35	47	6	24	15	1.77	<15	1.72	22	20	0.75	352	<4
33079	568	1	3.25	56	6	29	16	2.10	<15	1.66	25	23	0.68	347	<4
33080	513	2	4.81	61	9	34	30	2.69	<15	1.60	29	29	1.09	554	<4
33082	539	1	3.91	41	5	22	18	1.80	<15	1.74	20	22	0.57	300	<4
33083	567	1	2.38	45	4	21	13	1.68	<15	1.65	20	18	0.49	291	<4
33084	553	1	2.14	46	5	21	12	1.56	<15	1.50	21	16	0.54	286	<4
33086	544	1	2.31	39	<4	17	9	1.36	<15	1.53	17	15	0.37	217	<4
33087	522	1	4.19	39	<4	19	10	1.49	<15	1.35	18	15	0.39	224	<4
33088	563	1	2.31	43	5	22	14	1.77	<15	1.72	20	21	0.68	356	<4
33089	572	1	3.70	45	6	23	15	1.81	<15	1.67	22	22	0.75	336	<4
33091	560	1	4.50	45	5	25	18	1.89	<15	1.46	22	21	0.72	331	<4
33093	569	1	2.82	54	8	31	26	2.45	<15	1.77	26	26	0.85	531	<4
33094	557	1	2.16	37	5	18	11	1.47	<15	1.47	17	15	0.42	258	<4
33095	534	1	3.07	37	4	16	9	1.28	<15	1.42	17	14	0.33	208	<4
33096	565	1	2.56	50	6	23	17	1.85	<15	1.67	23	21	0.61	369	<4
33097	582	1	1.73	47	5	22	14	1.74	<15	1.84	21	20	0.54	348	<4
33098	555	1	3.16	50	6	26	15	1.96	<15	1.60	23	21	0.70	398	<4
33099	567	1	2.64	41	5	24	18	1.93	<15	1.74	21	21	0.61	349	<4
33100	583	1	3.21	42	6	24	16	1.90	<15	1.67	21	22	0.74	417	<4
33101	565	1	2.77	31	5	18	13	1.46	<15	1.65	16	18	0.45	256	<4
33102	523	1	4.50	40	5	23	17	1.88	<15	1.70	17	23	0.64	321	<4
33103	565	1	2.40	43	5	23	15	1.89	<15	1.58	20	15	0.51	317	<4
33104	542	1	1.35	49	5	21	14	1.77	<15	1.53	22	17	0.45	322	<4
33105	543	1	1.79	32	<4	16	9	1.37	<15	1.45	16	14	0.30	226	<4
33106	564	1	2.13	41	5	20	15	1.72	<15	1.73	19	21	0.52	344	<4
33108	562	1	2.42	54	6	23	16	1.91	<15	1.69	25	22	0.60	361	<4
33109	594	1	1.48	58	7	28	20	2.29	<15	1.93	26	26	0.71	471	<4
33110	575	1	3.01	46	5	22	16	1.73	<15	1.59	21	20	0.58	307	<4
33111	572	1	3.68	52	5	22	17	1.73	<15	1.42	23	15	0.60	304	<4
33112	575	1	2.06	42	5	22	14	1.72	<15	1.66	20	15	0.44	289	<4
33113	593	1	1.81	50	6	24	15	1.90	<15	1.92	23	24	0.57	358	<4
33115	545	2	3.74	57	8	32	24	2.55	<15	1.65	27	27	0.88	473	<4
33117	582	1	1.93	47	7	26	20	2.16	<15	1.81	24	24	0.63	474	<4
33118	604	1	1.93	36	<4	19	11	1.51	<15	1.74	17	18	0.38	238	<4
33120	587	1	0.69	45	5	23	14	1.85	<15	1.65	22	18	0.44	342	<4
33121	551	1	1.09	51	4	24	9	1.95	<15	1.47	24	16	0.30	327	<4
33123	559	1	3.99	44	5	22	15	1.70	22	1.45	20	20	0.70	325	<4
33124	464	1	5.04	35	<4	15	7	0.97	<15	1.38	15	14	0.40	186	<4
33125	439	1	9.68	41	5	26	16	1.75	<15	1.15	19	15	0.93	352	<4
33126	503	1	5.52	37	4	21	15	1.46	<15	1.30	18	15	1.17	263	<4
33127	467	1	7.78	36	5	26	16	1.83	<15	1.29	18	21	1.70	340	<4
33129	511	1	5.38	36	5	21	15	1.60	20	1.51	16	20	1.15	290	<4
33130	462	1	8.43	31	4	23	13	1.65	<15	1.21	16	20	1.69	286	<4
33131	457	1	7.59	34	5	23	16	1.55	<15	1.21	17	17	1.24	295	<4
33132	461	1	7.78	37	4	23	13	1.50	<15	1.27	16	17	1.34	285	<4
33134	443	1	7.69	28	4	22	11	1.45	<15	1.15	14	16	1.27	272	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
33068	0.61	11	17	711	20	5	199	9	2498	50	14	63	78
33069	0.83	9	11	435	18	4	181	9	2237	41	10	42	66
33070	0.89	10	10	398	13	3	171	7	2177	36	10	42	61
33071	0.79	12	12	339	18	4	187	8	2441	42	12	45	66
33072	0.85	11	6	232	12	3	169	2	2177	34	9	36	55
33073	0.81	10	8	311	26	4	172	4	2184	36	10	42	61
33074	0.85	12	17	574	30	5	197	6	2525	47	15	70	73
33075	0.64	11	10	265	17	3	203	9	2724	45	11	35	67
33076	0.64	12	17	834	24	6	179	8	2454	49	15	73	72
33078	0.91	10	12	432	23	4	182	8	2105	39	11	50	58
33079	0.86	12	12	505	26	5	176	7	2561	49	13	55	73
33080	0.55	13	21	892	28	7	168	10	2416	51	17	85	74
33082	0.78	9	13	515	<10	4	157	3	2186	38	11	54	58
33083	0.87	10	11	314	26	4	166	8	2361	38	10	44	60
33084	0.78	10	11	333	27	4	151	10	2087	35	10	41	54
33086	0.83	10	6	206	19	3	158	7	2135	33	9	35	57
33087	0.72	9	9	175	<10	3	160	4	2219	36	9	34	50
33088	0.79	9	15	404	10	4	161	5	1927	36	11	48	56
33089	0.86	11	13	410	21	4	202	5	2021	41	12	45	63
33091	0.72	9	15	413	17	4	187	7	2239	42	12	50	63
33093	0.76	10	17	767	23	6	170	2	2529	49	15	71	72
33094	0.78	9	9	294	27	3	159	5	2113	33	9	41	53
33095	0.74	8	8	184	21	3	145	5	1856	30	9	33	47
33096	0.79	11	10	536	18	4	160	15	2200	40	12	53	58
33097	0.96	9	12	396	17	4	164	7	2155	38	11	47	58
33098	0.78	12	12	511	15	5	171	6	2185	43	12	53	63
33099	0.92	10	11	429	18	4	178	5	2420	41	12	55	64
33100	0.84	9	13	503	13	4	187	4	2083	39	12	51	61
33101	0.85	7	9	388	12	3	154	<2	1813	30	10	45	50
33102	0.80	9	11	423	<10	4	197	<2	2211	40	11	49	60
33103	0.83	10	10	340	23	4	164	7	2494	42	11	45	64
33104	0.77	11	13	294	24	4	133	5	2315	38	11	45	59
33105	0.78	9	7	198	18	3	136	3	2142	32	8	32	48
33106	0.85	7	11	532	19	4	155	9	1964	34	11	49	53
33108	0.80	11	14	525	25	4	159	6	2299	40	12	52	61
33109	0.90	11	16	499	23	5	165	7	2558	46	15	60	73
33110	0.87	9	14	480	26	4	191	8	2062	39	11	51	57
33111	0.81	10	13	383	28	4	213	13	2210	40	11	48	59
33112	0.91	9	10	303	22	4	166	5	2262	39	10	45	55
33113	1.01	9	13	437	25	4	164	3	2288	40	13	51	61
33115	0.63	11	21	766	26	6	171	6	2467	51	16	75	73
33117	0.82	10	17	615	19	5	155	4	2349	43	14	60	65
33118	1.03	9	7	385	16	3	187	3	2237	36	9	42	55
33120	0.91	9	13	360	25	4	150	4	2456	39	13	47	64
33121	0.92	11	9	192	<10	3	142	7	3370	50	12	40	70
33123	0.77	8	12	481	20	4	235	7	2014	39	11	50	56
33124	0.67	7	7	232	13	3	254	4	1660	25	8	28	42
33125	0.54	12	11	670	27	4	547	11	1919	40	11	55	54
33126	0.72	9	11	363	13	3	260	6	1853	33	10	40	50
33127	0.61	11	17	588	<10	4	310	5	2005	40	12	52	56
33129	0.86	8	9	410	13	3	218	4	2043	34	11	47	54
33130	0.61	8	13	423	<10	4	284	3	1988	39	11	44	54
33131	0.63	8	11	439	19	3	213	5	1858	34	11	45	50
33132	0.70	9	9	472	14	3	233	2	1821	32	10	45	50
33134	0.67	9	9	328	14	3	218	<2	2028	33	10	35	51

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEN	CONN	MEAS	PH	CT-F
33135	M	35	32.407	105.497	2	15	07/17/77	12	37.0					
33136	H	35	32.358	105.475	2	96	07/17/77	12	38.0		C			
33138	M	35	32.299	105.449	2	15	07/17/77	13	38.0		C			
33139	M	35	32.255	105.428	2	15	07/17/77	13	38.0					
33140	M	35	32.302	105.421	2	15	07/17/77	13	37.0					
33141	M	35	32.292	105.396	2	15	07/17/77	13	38.0					
33142	M	35	32.253	105.379	2	15	07/17/77	14	39.0					
33143	M	35	32.281	105.381	2	15	07/17/77	14	38.0		C			
33144	H	35	32.303	105.393	2	97	07/17/77	14	39.0					
33145	H	35	32.328	105.377	2	97	07/17/77	14	38.0		C			
33146	M	35	32.411	105.386	2	15	07/17/77	16	39.0					
33147	M	35	32.412	105.386	2	15	07/17/77	16	39.0					
33148	M	35	32.437	105.397	2	15	07/17/77	16	39.0					
33149	M	35	32.438	105.397	2	15	07/17/77	16	39.0					
33150	M	35	32.454	105.379	2	15	07/17/77	17	39.0					
35101	H	35	32.087	105.868	2	97	07/13/77	17	32.0		C			
35102	H	35	32.093	105.835	2	97	07/13/77	17	32.0		C			
35103	M	35	32.112	105.797	2	15	07/13/77	17	31.0					
35104	M	35	32.077	105.797	2	97	07/13/77	17	31.0					
35105	M	35	32.050	105.796	2	15	07/13/77	17	30.0					
35106	M	35	32.038	105.796	2	15	07/13/77	17	30.0					
35107	H	35	32.020	105.782	2	97	07/13/77	17	30.0					
35108	M	35	32.033	105.839	2	15	07/13/77	17	30.0					
35111	M	35	32.021	105.901	2	15	07/13/77	18	30.0					
35112	M	35	32.045	105.892	2	15	07/13/77	19	28.0					
35113	M	35	32.064	105.897	2	15	07/13/77	19	29.0					
35114	M	35	32.064	105.913	2	15	07/14/77	8	29.0					
35115	H	35	32.047	105.853	2	96	07/14/77	8	31.0					
35116	M	35	32.051	105.818	2	15	07/14/77	8	31.0		C			
35117	H	35	32.070	105.762	2	96	07/14/77	9	31.0		C			
35118	M	35	32.083	105.734	2	15	07/14/77	9	32.0		C			
35119	H	35	32.097	105.692	2	96	07/14/77	9	33.0		C			
35120	M	35	32.111	105.640	2	15	07/14/77	9	32.0					
35121	M	35	32.095	105.656	2	15	07/14/77	10	33.0					
35122	M	35	32.087	105.662	2	15	07/14/77	10	34.0					
35123	M	35	32.076	105.658	2	15	07/14/77	10	33.0					
35125	M	35	32.057	105.643	2	15	07/14/77	10	34.0					
35127	M	35	32.034	105.597	2	15	07/14/77	11	36.0		C			
35128	H	35	32.042	105.583	2	97	07/14/77	11	35.0		C			
35129	M	35	32.066	105.545	2	15	07/14/77	12	36.0		C			
35131	M	35	32.059	105.547	2	15	07/14/77	12	36.0		C			
35132	M	35	32.054	105.542	2	15	07/14/77	12	36.0		C			
35133	M	35	32.041	105.540	2	15	07/14/77	12	37.0		C			
35135	M	35	32.020	105.543	2	15	07/14/77	13	37.0		C			
35136	H	35	32.007	105.559	2	97	07/14/77	13	32.0		C			
35137	M	35	32.008	105.568	2	15	07/14/77	14	33.0		C			
35138	M	35	32.005	105.602	2	15	07/14/77	14	32.0		C			
35139	M	35	32.005	105.611	2	15	07/14/77	14	30.0		C			
35140	M	35	32.011	105.671	2	15	07/14/77	14	33.0		C			
35141	M	35	32.023	105.696	2	15	07/14/77	14	32.0		C			
35142	M	35	32.013	105.725	2	15	07/14/77	14	34.0					
35143	M	35	32.005	105.737	2	15	07/14/77	15	35.0		C			
35146	M	35	32.133	105.719	2	15	07/14/77	16	31.0		C			
35147	M	35	32.139	105.652	2	15	07/14/77	17	30.0		C			
35148	M	35	32.127	105.669	2	15	07/14/77	17	29.0		C			

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
33135	1	13	1	7	5	7			4	2	2.50	<2	4.14	17
33136	1	8	1	7	5	7			1	2	2.50	<2	4.79	18
33138	1	6	1	7	4	7			2	2	2.20	<2	3.07	12
33139	1	7	1	7	4	6			4	2	2.50	<2	2.35	<10
33140	1	9	1	7	4	7			3	2	2.00	<2	3.36	11
33141	1	5	1	7	4	7			3	2	1.50	<2	3.91	12
33142	1	6	1	7	2	7			3	2	1.80	<2	3.60	15
33143	9	5	1	7	3	7			3	2	1.60	<2	3.19	12
33144	1	0	1	7	4	7			4	2	2.20	<2	4.58	22
33145	9	5	1	7	4	7			4	2	2.30	<2	3.96	18
33146	1	6	1	7	2	7			4	2	2.30	<2	4.75	19
33147	1	4	1	7	1	7			4	2	2.40	<2	4.21	14
33148	1	4	1	7	1	7			4	2	2.70	<2	4.97	17
33149	1	4	1	7	1	7			4	2	2.60	<2	4.65	19
33150	1	8	1	7	3	7			4	2	2.60	<2	4.92	20
35101	9	41	4		5	6			2	3	2.40	<2	6.61	31
35102	9	66	4		4	6			2	3	1.50	<2	4.82	17
35103	1	41	4		5	6			1	3	2.20	<2	4.43	12
35104	1	94	4		5	6			2	3	2.50	<2	6.67	27
35105	1	55	4		4	6			2	3	2.50	<2	5.43	16
35106	1	41	4		4	6			2	3	2.10	<2	4.88	16
35107	1	69	4		5	6			2	3	2.40	<2	6.44	21
35108	1	61	4		5	6			2	3	2.00	<2	5.66	21
35111	1	41	4		5	6			3	3	2.20	<2	4.77	15
35112	1	41	4		5	6			3	3	2.50	<2	5.51	17
35113	1	69	4		4	6			2	3	2.40	<2	6.19	24
35114	1	5	1	7	4	6			3	2	2.70	<2	5.49	15
35115	1	6	1	7	5	6			2	2	2.20	<2	4.55	17
35116	9	5	1	7	5	6			2	2	2.20	<2	5.57	20
35117	9	8	4		4	6			2	1	2.20	<2	5.34	21
35118	9	3	1	1	4	6			2	2	1.50	<2	3.88	13
35119	1	5	1	1	5	6			2	1	2.40	<2	4.68	16
35120	1	25	4		4	6			2	1	2.30	<2	5.46	17
35121	1	7	1	7	5	7			2	1	2.10	<2	5.32	16
35122	1	5	1	7	5	7			2	1	2.60	<2	5.21	18
35123	1	7	1	7	5	7			2	1	2.00	<2	4.84	17
35125	1	9	1	7	5	6			2	1	2.00	<2	5.24	19
35127	1	12	1	7	5	7			4	1	2.20	<2	5.48	26
35128	1	14	3	7	5	7			4	1	2.60	<2	4.80	21
35129	1	9	1	7	5	7			4	1	2.60	<2	4.68	16
35131	1	11	1	7	2	7			4	2	2.60	<2	5.20	22
35132	1	8	1	7	3	7			4	2	2.70	<2	5.14	24
35133	1	9	1	7	5	7			3	2	2.50	<2	5.26	21
35135	1	15	3	7	4	7			5	3	2.50	<2	5.84	22
35136	9	7	3	7	4	6			5	3	2.40	<2	7.30	24
35137	1	15	3	7	5	6			2	4	2.30	<2	5.69	21
35138	9	12	4		4	6			2	3	2.20	<2	5.31	18
35139	1	10	4		5	7			2	3	2.20	<2	5.00	17
35140	1	4	1	7	5	7			2	3	2.30	<2	5.78	19
35141	1	7	1	7	5	7			2	3	2.00	<2	4.92	16
35142	1	9	1	7	5	7			2	3	2.20	<2	5.54	16
35143	4	12	1	7	5	7			2	3	2.40	<2	6.39	16
35146	1	12	1	7	5	7			3	3	2.40	<2	5.72	19
35147	1	9	1	7	5	7			2	3	2.30	<2	5.78	26
35148	1	9	1	7	5	7			2	3	2.20	<2	5.55	19

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	DE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	NG	NN	NO
33135	435	1	8.63	39	5	27	14	1.57	<15	1.19	19	17	0.99	297	<4
33136	500	1	5.34	42	6	24	21	1.61	<15	1.57	19	20	1.12	358	<4
33138	441	1	5.05	38	<4	13	10	0.83	<15	1.23	17	12	0.32	174	<4
33139	412	<1	2.63	31	<4	9	7	0.52	16	1.17	13	9	0.16	126	<4
33140	474	1	4.66	28	<4	14	11	0.95	<15	1.26	13	13	0.50	171	<4
33141	482	1	4.43	28	<4	17	12	1.21	<15	1.47	13	16	0.48	231	<4
33142	521	1	1.64	37	<4	16	9	1.13	21	1.52	18	14	0.41	201	<4
33143	480	1	2.09	30	<4	14	9	1.01	<15	1.42	15	13	0.41	175	<4
33144	503	1	5.46	41	5	24	17	1.61	<15	1.44	19	20	1.13	265	<4
33145	508	1	5.07	33	4	21	11	1.41	<15	1.35	17	17	1.08	267	<4
33146	550	1	3.98	35	4	21	11	1.48	20	1.45	15	21	0.78	266	<4
33147	518	1	3.57	40	4	21	11	1.45	<15	1.57	19	17	0.78	257	<4
33148	541	1	3.50	50	5	26	14	1.80	<15	1.67	22	21	0.78	318	<4
33149	521	1	4.37	50	6	28	15	1.86	<15	1.54	24	20	0.95	328	<4
33150	531	1	4.12	54	5	27	15	1.96	<15	1.64	24	21	0.58	289	<4
35101	574	2	3.34	54	7	32	23	2.58	<15	1.81	26	34	0.89	500	<4
35102	585	1	2.79	42	4	19	12	1.51	<15	1.75	21	21	0.43	243	<4
35103	590	1	2.34	25	<4	15	12	1.42	<15	1.71	13	18	0.30	215	<4
35104	648	2	2.79	65	8	33	23	2.58	<15	1.81	30	25	0.69	453	<4
35105	613	1	3.01	53	5	25	16	2.03	<15	1.77	25	21	0.42	350	<4
35106	602	1	3.11	42	4	20	15	1.66	<15	1.64	19	20	0.37	240	<4
35107	632	2	2.11	65	7	31	26	2.53	<15	1.63	30	26	0.73	371	<4
35108	577	1	3.98	52	7	27	20	2.15	<15	1.59	25	25	0.56	327	<4
35111	616	1	1.35	45	4	20	12	1.66	<15	1.58	22	18	0.33	242	<4
35112	603	1	1.65	64	7	30	16	2.27	<15	1.67	30	21	0.56	378	<4
35113	622	1	0.97	56	8	29	18	2.33	<15	1.90	29	27	0.60	374	<4
35114	605	1	3.39	47	6	30	19	2.17	<15	1.70	24	22	0.53	364	<4
35115	605	1	1.94	46	5	21	12	1.70	<15	1.51	24	16	0.35	248	<4
35116	617	1	1.31	59	6	27	17	2.20	<15	1.63	29	21	0.50	395	<4
35117	608	1	1.70	47	6	23	19	1.78	<15	1.66	24	21	0.51	323	<4
35118	566	1	3.13	34	<4	16	14	1.26	<15	1.47	16	14	0.28	179	<4
35119	608	1	1.31	49	4	23	15	1.78	<15	1.52	24	17	0.39	281	<4
35120	620	1	2.74	53	6	26	17	2.03	<15	1.81	25	22	0.57	357	<4
35121	627	1	1.25	50	5	23	17	1.78	<15	1.72	24	20	0.50	330	<4
35122	555	1	1.85	39	<4	24	16	1.94	<15	1.61	20	21	0.49	330	<4
35123	556	1	3.23	37	<4	18	13	1.49	<15	1.85	19	21	0.40	238	<4
35125	613	1	1.11	46	5	21	13	1.79	<15	1.73	22	21	0.47	331	<4
35127	590	2	3.56	53	5	26	14	1.89	<15	1.60	26	23	0.80	373	<4
35128	567	1	3.14	45	4	22	15	1.68	<15	1.54	22	20	0.71	314	<4
35129	569	1	3.74	44	4	22	12	1.67	<15	1.53	20	20	0.85	283	<4
35131	588	1	3.72	52	5	25	16	1.92	<15	1.64	24	23	0.82	326	<4
35132	516	1	4.35	51	5	24	20	1.82	<15	1.47	24	22	0.91	333	<4
35133	560	1	1.82	53	5	27	17	1.94	<15	1.62	26	20	0.66	354	<4
35135	522	1	4.03	64	5	24	16	2.21	<15	1.66	26	27	0.59	390	<4
35136	537	1	1.08	75	7	29	22	2.70	23	2.05	37	38	0.67	654	<4
35137	559	1	1.89	54	5	24	14	1.99	<15	1.87	25	24	0.66	418	<4
35138	624	1	2.17	52	5	23	17	1.77	<15	1.67	24	22	0.57	351	<4
35139	631	1	2.57	45	<4	20	12	1.82	<15	1.69	22	24	0.48	340	<4
35140	592	1	1.54	49	6	26	16	2.08	<15	1.74	24	25	0.64	396	<4
35141	604	1	1.17	40	<4	18	16	1.51	<15	1.75	20	20	0.37	258	<4
35142	628	1	1.22	62	6	24	17	1.99	16	1.78	27	22	0.47	347	<4
35143	616	1	0.74	55	7	29	27	2.36	43	2.01	27	27	0.61	441	<4
35146	616	1	2.10	52	5	26	21	1.96	54	1.91	24	24	0.62	361	<4
35147	612	1	2.49	56	6	27	20	2.04	<15	1.85	26	25	0.69	385	<4
35148	638	1	1.30	44	4	20	17	1.68	<15	2.02	22	23	0.48	284	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NO	NI	P	PB	SC	SR	TH	TI	V	Y	ZR	ZR
33135	0.60	11	9	445	18	4	251	8	2020	37	11	52	53
33136	0.81	9	11	539	19	4	278	7	1990	38	11	71	55
33138	0.59	9	6	169	15	2	244	6	1620	22	8	32	43
33139	0.49	6	5	70	12	2	145	8	1369	14	6	22	34
33140	0.67	7	8	174	<10	2	218	2	1659	24	8	35	43
33141	0.70	7	15	305	10	3	215	2	1671	27	9	42	45
33142	0.72	10	6	176	23	3	133	6	1883	26	8	30	52
33143	0.61	8	6	162	14	2	128	2	1753	23	7	26	53
33144	0.74	11	11	420	15	4	258	6	2214	37	12	48	68
33145	0.69	9	9	276	11	3	221	7	2129	33	10	36	60
33146	0.84	10	9	245	<10	4	218	4	1979	34	12	37	65
33147	0.83	9	8	263	21	3	159	7	2229	34	10	36	54
33148	0.88	12	11	301	21	4	165	9	2595	41	12	42	66
33149	0.78	13	12	357	20	4	176	8	2839	44	12	45	77
33150	0.77	11	12	299	13	4	154	5	2882	45	13	44	75
35101	0.70	14	21	689	11	7	176	<2	2942	51	18	65	91
35102	0.84	9	9	331	19	4	151	7	2005	32	11	39	59
35103	0.95	6	6	197	12	3	158	<2	2249	31	9	32	59
35104	0.86	14	18	510	34	6	176	2	3045	53	17	66	89
35105	0.99	12	13	256	24	4	163	10	2851	42	13	49	75
35106	0.92	8	31	273	14	4	180	3	2415	36	11	42	66
35107	0.75	12	17	555	36	6	164	11	2826	49	18	73	85
35109	0.75	11	14	420	21	5	174	5	2500	43	14	53	75
35111	0.93	9	7	171	16	3	162	6	2550	37	10	38	64
35112	0.86	14	14	333	22	5	176	6	3105	49	15	105	86
35113	0.90	16	13	297	22	6	164	4	2742	47	15	58	81
35114	1.05	12	11	355	14	5	225	4	3144	49	12	55	79
35115	0.85	10	12	206	33	4	165	9	2607	37	10	39	66
35116	0.82	12	13	326	23	5	156	7	2834	45	14	53	78
35117	0.80	11	14	491	29	5	162	5	2109	34	14	55	67
35118	0.81	7	6	224	17	3	158	6	2028	29	8	29	54
35119	0.89	13	10	193	22	4	171	6	2929	39	12	40	85
35120	0.95	12	18	340	11	4	177	2	2851	43	14	48	78
35121	0.94	12	12	340	26	4	164	11	2323	37	12	54	73
35122	0.89	13	12	341	<10	5	167	2	2810	41	13	45	86
35123	1.03	9	8	267	10	3	176	4	2188	31	10	37	64
35125	0.87	10	9	275	13	4	147	6	2284	35	13	43	74
35127	0.87	16	13	402	17	5	210	8	2476	40	14	47	98
35128	0.89	17	11	289	24	4	185	2	2459	37	12	41	112
35129	0.90	10	10	247	14	4	195	6	2467	40	11	39	68
35131	0.98	12	14	287	16	4	209	10	2823	44	12	45	84
35132	0.83	17	11	383	12	4	211	7	2452	41	13	49	106
35133	0.95	16	12	341	20	4	181	5	3022	44	13	49	98
35135	0.94	26	10	366	20	4	198	8	2745	41	15	56	169
35136	0.90	24	19	464	20	6	152	6	2761	51	21	73	170
35137	0.92	13	16	367	24	5	163	9	2408	40	13	51	87
35138	0.95	12	10	380	20	4	199	5	2280	37	12	44	85
35139	0.97	14	11	269	<10	4	204	5	2507	39	11	42	111
35140	0.91	13	11	412	21	5	179	5	2699	46	14	57	88
35141	0.93	9	7	245	16	4	155	4	2084	30	11	42	65
35142	0.98	13	10	331	25	5	167	11	2730	42	14	51	79
35143	0.99	12	14	346	21	6	152	6	2897	46	17	56	85
35146	1.06	11	11	484	24	4	189	7	2588	42	13	54	69
35147	0.98	12	11	610	41	5	204	10	2667	43	14	60	81
35149	1.20	8	13	289	25	4	179	4	2357	35	11	46	64

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEN	WTEM	COMM	MEAS	PH	CT-F
35149	M	35	32.136	105.679	2	15	07/14/77	17	30.0		C			
35150	M	35	32.150	105.668	2	15	07/14/77	18	29.0		C			
36091	M	35	32.512	105.120	2	15	06/28/77	19	40.0					
36251	M	35	32.983	105.918	2	12	06/28/77	14	39.0	31.0	C		8.0	3650
36252	M	35	32.994	105.936	2	15	06/28/77	14	39.0					
36253	M	35	32.965	105.931	2	15	06/28/77	14	38.0					
36254	M	35	32.960	105.941	2	15	06/28/77	14	39.0					
36256	H	35	32.927	105.943	2	97	06/28/77	15	37.0					
36257	M	35	32.919	105.934	2	15	06/28/77	16	38.0					
36258	M	35	32.904	105.929	2	15	06/28/77	16	38.0					
36259	M	35	32.894	105.916	2	15	06/28/77	17	38.0					
36260	M	35	32.871	105.916	2	15	06/28/77	17	38.0					
36261	M	35	32.863	105.918	2	15	06/28/77	17	38.0		C			
36262	M	35	32.836	105.944	2	15	06/28/77	17	37.0					
36263	M	35	32.817	105.943	2	15	06/28/77	18	37.0					
36264	M	35	32.806	105.943	2	15	06/28/77	18	37.0					
36267	M	35	32.779	105.943	2	15	06/28/77	19	35.0					
36268	M	35	32.751	105.938	2	15	06/28/77	19	35.0					
36269	H	35	32.100	105.971	2	97	06/29/77	15	35.0					
36270	M	35	32.089	105.948	2	15	06/29/77	15	35.0					
36271	M	35	32.077	105.954	2	15	06/29/77	15	35.0					
36272	M	35	32.070	105.962	2	15	06/29/77	16	34.0					
36273	M	35	32.058	105.965	2	15	06/29/77	18	34.0					
36274	M	35	32.051	105.969	2	15	06/29/77	16	34.0					
36275	H	35	32.006	105.968	2	97	06/29/77	17	34.0					
36276	H	35	32.014	105.920	2	97	06/29/77	17	34.0					
36277	H	35	32.082	105.913	2	97	06/29/77	18	34.0					
36278	H	35	32.099	105.927	2	96	06/29/77	18	34.0					
36279	H	35	32.150	105.985	2	97	06/30/77	9	28.0					
36280	H	35	32.150	105.934	2	97	06/29/77	9	29.0					
36281	M	35	32.146	105.937	2	15	06/29/77	10	30.0					
36282	M	35	32.156	105.916	2	15	06/29/77	10	30.0					
36283	H	35	32.142	105.910	2	97	06/29/77	10	30.0					
36284	M	35	32.119	105.893	2	15	06/29/77	10	30.0					
36285	M	35	32.119	105.886	2	15	06/29/77	11	31.0					
36286	M	35	32.110	105.886	2	15	06/29/77	11	31.0					
36287	M	35	32.133	105.888	2	15	06/29/77	11	32.0					
36288	H	35	32.180	105.943	2	97	06/29/77	11	34.0					
36289	H	35	32.228	105.984	2	97	06/29/77	11	34.0					
36290	M	35	32.237	105.979	2	15	06/29/77	12	35.0					
36291	M	35	32.234	105.998	2	15	06/29/77	12	34.0					
36292	M	35	32.181	105.924	2	15	06/29/77	12	35.0					
36293	M	35	32.188	105.903	2	15	06/29/77	12	35.0					
36294	H	35	32.203	105.896	2	97	06/29/77	12	36.0					
36295	M	35	32.232	105.912	2	15	06/29/77	13	36.0					
36296	H	35	32.234	105.911	2	97	06/29/77	13	36.0					
36297	M	35	32.217	105.893	2	15	06/29/77	13	36.0					
36298	M	35	32.214	105.877	2	15	06/29/77	13	36.0					
36299	M	35	32.241	105.874	2	15	06/29/77	14	37.0					
36300	M	35	32.227	105.824	2	15	06/29/77	14	36.0					
36301	M	35	32.241	105.819	2	15	06/29/77	14	36.0					
36302	H	35	32.244	105.776	2	97	06/29/77	14	37.0					
36303	M	35	32.223	105.786	2	15	06/29/77	14	37.0					
36304	M	35	32.204	105.805	2	15	06/29/77	14	37.0					
36305	M	35	32.189	105.821	2	15	06/29/77	15	38.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
35149	9	12	1	7	5	7			2	3	2.40	<2	5.84	25
35150	1	7	1	7	5	7			2	3	2.50	<2	5.47	21
36091	1	5	1	6	4	6			3	2	2.60	<2	4.40	17
36251	7	22	1	6	4	6	2	1	3	2	4.00	<2	2.89	<10
36252	1	25	1	6	4	6			3	2	3.30	<2	4.41	16
36253	1	38	1	6	4	6			3	3	3.40	<2	4.28	26
36254	1	25	1	6	4	6			3	3	3.60	<2	4.16	17
36256	1	27	1	6	4	6			3	3	3.30	<2	3.89	28
36257	1	19	1	6	4	6			2	2	3.10	<2	3.56	31
36258	7	19	1	6	4	6			3	2	2.60	<2	3.69	28
36259	1	11	1	7	4	6			4	2	2.40	<2	3.59	31
36260	1	22	1	6	4	6			4	2	2.80	<2	3.97	29
36261	7	30	1	7	4	6			4	2	2.10	<2	2.78	19
36262	1	30	1	6	4	6			3	2	2.50	<2	3.45	25
36263	1	27	1	7	4	6			3	2	3.10	<2	3.86	31
36264	1	16	1	7	4	6			3	2	2.50	<2	2.96	20
36267	1	44	1	7	4	6			2	2	2.60	<2	3.83	22
36269	1	36	1	7	4	6			3	2	3.10	<2	5.33	35
36269	1	61	1	6	4	6			3	2	2.30	<2	5.20	27
36270	1	36	1	6	4	6			3	2	2.50	<2	4.98	30
36271	1	33	1	7	4	6			3	2	2.20	<2	4.83	22
36272	1	27	1	7	4	6			3	2	2.50	<2	4.60	21
36273	1	33	1	7	4	6			3	2	2.50	<2	5.00	25
36274	1	25	1	7	4	6			3	2	2.40	<2	5.01	25
36275	1	44	1	6	4	7			3	2	2.10	<2	5.40	20
36276	1	69	1	6	4	6			3	2	2.40	<2	6.28	30
36277	1	83	1	6	4	6			3	2	2.40	<2	5.30	27
36278	1	61	1	6	4	6			3	2	2.40	<2	5.46	39
36279	1	55	1	6	4	6			2	1	2.20	<2	5.83	27
36280	1	55	1	6	4	6			2	1	2.60	<2	6.27	47
36281	1	83	1	6	4	6			2	1	2.50	<2	5.76	44
36282	1	22	1	6	4	6			2	1	2.30	<2	4.89	23
36283	1	69	1	6	4	6			2	1	2.50	<2	6.16	58
36284	1	27	1	6	4	6			2	1	2.20	<2	4.72	30
36285	1	88	1	6	4	6			2	1	1.90	<2	4.54	20
36286	1	41	1	6	4	6			2	1	2.20	<2	4.85	21
36287	1	41	1	6	4	6			2	1	2.20	<2	4.82	22
36288	1	41	1	6	4	6			2	1	2.50	<2	5.92	42
36289	1	63	1	6	4	6			3	1	2.30	<2	5.18	29
36290	1	41	1	7	4	6			3	1	2.40	<2	5.10	32
36291	1	55	1	7	4	6			3	1	2.50	<2	5.39	35
36292	1	27	1	6	4	6			2	1	2.10	<2	5.21	19
36293	1	55	1	6	4	6			3	1	2.20	<2	5.00	26
36294	1	61	1	6	4	6			3	1	2.70	<2	6.98	38
36295	1	52	1	6	4	6			3	1	2.60	<2	5.52	46
36296	1		1	6	4	6			3	1	2.30	<2	5.26	33
36297	1	41	1	6	4	6			3	1	2.20	<2	4.61	21
36298	1	44	1	6	4	6			3	1	2.30	<2	4.70	19
36299	1	69	1	6	4	6			3	1	2.50	<2	5.28	32
36300	1	55	1	6	4	6			3	2	2.10	<2	5.50	32
36301	5	55	1	6	4	6			3	2	2.40	<2	5.16	22
36302	1	41	1	1	4	6			3	2	2.20	<2	5.64	18
36303	1	55	1	6	4	6			3	2	2.30	<2	5.04	21
36304	1	55	1	6	4	6			3	2	2.20	<2	4.78	13
36305	1	97	1	6	1	6			3	2	2.20	<2	5.25	19

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QJADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
35149	616	1	1.52	57	6	28	21	2.26	<15	1.80	28	23	0.67	420	<4
35150	586	1	2.91	57	6	28	18	2.19	<15	1.74	26	22	0.62	358	<4
36091	567	1	4.33	50	5	21	13	1.67	<15	1.51	22	16	0.41	252	<4
36251	673	<1	12.35	52	6	23	17	2.74	36	0.66	21	12	0.80	591	<4
36252	467	1	7.81	56	7	28	13	2.66	<15	1.28	24	15	0.98	502	<4
36253	206	<1	11.66	<10	<4	33	15	2.30	31	0.84	<2	25	1.01	283	<4
36254	438	1	8.38	49	7	30	14	2.42	33	0.99	22	21	0.68	355	<4
36256	346	1	6.03	33	7	35	20	2.42	<15	1.05	14	25	0.61	354	<4
36257	302	1	12.67	34	7	30	13	2.06	22	0.72	15	23	0.80	283	<4
36258	276	1	13.42	36	4	27	13	1.85	<15	1.01	18	18	1.59	328	<4
36259	252	1	13.94	32	5	28	12	1.86	<15	1.05	16	22	1.71	363	<4
36260	360	1	20.94	34	6	31	14	1.97	<15	1.21	17	25	1.10	376	<4
36261	285	1	14.61	21	4	19	16	1.74	<15	0.80	10	20	1.48	338	<4
36262	287	1	11.34	33	6	29	13	2.36	<15	0.99	16	25	1.34	379	<4
36263	225	1	10.76	36	6	38	13	1.99	<15	1.15	19	25	1.02	316	<4
36264	285	1	11.27	31	5	28	11	1.61	<15	0.82	16	18	1.17	283	<4
36267	432	1	9.53	41	6	27	13	1.86	<15	1.43	20	22	0.60	310	<4
36268	265	1	7.39	52	10	45	21	2.58	<15	1.43	26	40	1.00	457	<4
36269	565	1	6.82	56	6	29	18	1.94	<15	1.81	27	27	0.70	380	<4
36270	541	1	7.98	38	5	27	17	1.86	<15	1.76	20	28	0.69	347	<4
36271	606	1	5.22	38	4	23	11	1.67	<15	1.84	20	24	0.54	332	<4
36272	574	1	5.19	36	5	23	10	1.63	<15	1.88	20	23	0.49	283	<4
36273	602	1	4.54	44	5	26	11	1.82	<15	1.84	24	25	0.54	350	<4
36274	617	1	4.13	49	5	25	11	1.85	<15	1.99	24	25	0.50	388	<4
36275	636	1	4.17	40	5	24	16	1.84	<15	2.12	22	25	0.54	307	<4
36276	605	2	4.43	66	8	33	25	2.59	<15	1.91	32	35	0.76	419	<4
36277	613	1	4.87	54	6	27	21	1.93	<15	2.08	26	28	0.58	338	<4
36278	557	1	7.38	50	7	32	26	2.12	<15	1.85	24	32	0.86	362	<4
36279	617	1	4.53	49	5	27	20	2.02	<15	2.22	23	32	0.72	330	<4
36280	529	2	7.20	60	9	37	28	2.73	<15	2.04	29	43	1.30	532	<4
36281	536	2	7.88	56	8	36	20	2.47	<15	1.90	27	37	1.08	394	<4
36282	631	1	2.29	41	5	23	13	1.71	<15	2.12	21	26	0.58	305	<4
36283	490	2	5.43	59	9	39	26	2.65	<15	2.20	27	43	1.31	373	<4
36284	550	1	5.17	36	5	23	14	1.62	<15	1.75	19	28	0.78	298	<4
36285	608	1	3.57	22	<4	18	10	1.33	<15	1.94	14	24	0.57	239	<4
36286	600	1	2.87	39	5	21	12	1.67	<15	1.92	20	24	0.57	324	<4
36287	635	1	2.48	37	4	20	10	1.58	<15	2.05	20	22	0.45	251	<4
36288	527	2	9.91	54	8	35	26	2.65	<15	1.73	26	46	1.29	448	<4
36289	565	1	6.10	42	5	28	15	1.88	<15	1.94	21	25	0.67	335	<4
36290	527	1	6.93	41	6	30	20	2.02	<15	1.60	21	28	0.84	383	<4
36291	508	1	8.09	37	5	31	17	2.16	<15	1.86	20	33	0.88	419	<4
36292	637	1	2.04	41	4	23	14	1.73	<15	2.22	21	27	0.58	339	<4
36293	603	1	3.85	45	5	24	14	1.75	<15	2.01	22	29	0.76	310	<4
36294	570	2	5.14	59	9	39	28	2.98	<15	2.28	31	46	1.31	518	<4
36295	510	1	9.91	41	7	35	25	2.37	<15	1.78	22	41	1.23	388	<4
36296	579	1	5.34	40	5	27	16	1.90	<15	2.10	20	32	0.81	326	<4
36297	593	1	2.38	40	4	21	11	1.64	<15	2.01	22	23	0.48	290	<4
36298	621	1	1.53	47	5	22	11	1.65	<15	1.96	22	21	0.45	282	<4
36299	607	1	3.19	52	6	27	16	1.93	<15	2.07	25	31	0.90	406	<4
36300	588	1	4.60	43	5	26	20	2.05	<15	2.10	24	32	0.67	406	<4
36301	608	1	1.14	39	5	22	12	1.84	<15	2.27	23	27	0.47	347	<4
36302	574	1	2.51	55	6	27	18	2.00	<15	1.79	24	25	0.52	344	<4
36303	507	1	6.40	50	7	26	21	1.90	<15	1.38	23	21	0.61	283	<4
36304	578	1	2.87	31	4	18	12	1.41	<15	1.74	16	18	0.37	207	<4
36305	568	1	1.10	50	5	23	16	1.73	<15	1.86	22	20	0.50	354	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NR	NI	P	PD	SC	SR	TH	TI	V	Y	ZH	ZR
35149	0.88	12	17	609	28	5	169	8	2950	45	17	61	91
35150	0.89	14	14	328	13	5	179	8	3086	47	14	51	78
36091	0.93	12	11	266	29	3	247	11	2476	41	10	35	57
36251	0.68	20	12	471	28	5	346	11	7893	77	30	57	209
36252	0.96	16	14	594	<10	5	273	7	4664	60	22	45	112
36253	0.42	<4	15	511	<10	6	520	12	2779	48	13	51	60
36254	0.78	15	16	421	20	5	306	9	4670	63	17	55	92
36256	0.66	16	27	561	13	5	341	<2	3737	60	12	55	75
36257	0.53	10	19	449	14	5	741	6	2833	48	14	45	54
36258	0.62	10	14	478	22	4	320	<2	2383	45	15	44	64
36259	0.73	12	13	547	<10	4	293	8	2048	50	15	45	44
36260	0.78	11	15	606	14	5	321	5	2617	49	15	57	60
36261	0.87	9	9	448	92	3	288	<2	2094	37	12	56	47
36262	0.81	12	16	487	16	5	265	2	3504	58	16	63	77
36263	0.71	12	19	595	16	5	313	9	2494	49	15	66	59
36264	0.52	11	15	474	<10	4	282	8	1917	40	12	53	39
36267	0.92	12	13	426	19	4	263	11	2858	50	13	46	69
36268	0.76	10	25	685	10	7	245	12	2528	65	17	68	69
36269	1.00	14	15	618	19	5	275	10	2348	47	14	56	74
36270	1.06	12	14	491	14	5	309	<2	2376	45	13	53	71
36271	1.21	11	11	371	10	4	261	<2	2394	41	12	45	65
36272	1.20	10	10	281	15	4	265	8	2395	42	11	41	65
36273	1.24	11	13	382	15	4	254	12	2643	46	13	49	69
36274	1.34	12	10	373	10	4	245	7	2770	45	13	50	68
36275	1.25	11	12	516	14	4	221	8	2431	43	13	57	72
36276	0.85	14	18	758	23	7	191	13	2717	54	19	60	88
36277	1.25	12	11	461	18	5	241	9	2660	49	13	50	76
36278	1.00	13	18	521	15	6	360	12	2397	52	14	55	71
36279	1.18	12	14	644	19	5	262	10	2399	46	14	64	72
36280	0.73	14	22	883	19	7	272	11	2626	60	17	81	82
36281	0.83	14	20	581	<10	6	342	12	2720	61	16	67	84
36282	1.22	10	11	332	18	4	348	11	2467	44	11	43	63
36283	0.82	12	20	758	21	7	340	11	2630	60	15	70	77
36284	0.99	8	13	437	16	4	221	6	2009	40	12	45	64
36285	1.15	7	9	303	<10	3	222	<2	1821	32	9	32	53
36286	1.07	10	12	395	<10	4	184	4	2176	39	12	41	65
36287	1.24	9	10	241	10	4	203	2	2389	39	11	37	64
36288	0.54	12	23	927	20	7	492	7	2489	61	18	76	79
36289	1.10	10	13	469	11	5	288	11	2331	46	13	47	68
36290	0.91	11	17	539	14	5	386	4	2330	47	13	57	68
36291	0.89	11	18	677	<10	6	308	<2	2372	50	14	57	70
36292	1.23	9	13	389	13	4	206	2	2293	40	12	46	63
36293	1.15	10	12	384	11	4	255	7	2298	44	12	44	66
36294	0.79	12	25	1069	12	8	206	9	2803	65	19	68	89
36295	0.75	13	21	729	<10	6	338	4	2415	58	15	62	72
36296	1.13	10	17	534	12	5	263	8	2279	47	12	48	65
36297	1.16	9	9	305	<10	4	180	5	2393	41	11	39	63
36298	1.22	10	11	265	21	4	197	8	2558	41	11	42	63
36299	1.18	10	15	574	13	5	252	7	2501	47	13	50	71
36300	0.99	11	19	597	13	5	200	<2	2438	45	15	59	72
36301	1.18	8	11	401	<10	4	162	<2	2513	41	13	49	66
36302	0.81	11	15	413	26	5	147	11	2275	43	13	56	62
36303	0.68	12	15	470	27	5	185	9	2150	42	13	64	62
36304	0.98	8	9	266	21	3	167	<2	1913	31	9	41	50
36305	0.92	9	14	377	22	4	157	4	2109	39	12	48	60

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAE	NTYP	DATE	HOUR	ATEM	WTEM	COMM	MEAS	PH	CT-F
36305	M	35	32.186	105.823	2	15	06/29/77	15	38.0					
36307	M	35	32.158	105.844	2	15	06/29/77	15	36.0					
36308	M	35	32.147	105.855	2	15	06/29/77	15	37.0					
36309	H	35	32.152	105.892	2	97	06/29/77	16	39.0					
36310	M	35	32.266	105.992	2	15	07/01/77	9	34.0					
36311	M	35	32.267	105.985	2	15	07/01/77	9	34.0					
36312	M	35	32.268	105.965	2	15	07/01/77	9	34.0					
36313	M	35	32.257	105.911	2	15	07/01/77	10	36.0					
36314	M	35	32.262	105.925	2	15	07/01/77	10	36.0					
36315	H	35	32.265	105.911	2	97	07/01/77	10	37.0					
36316	M	35	32.269	105.897	2	15	07/01/77	10	37.0					
36317	M	35	32.287	105.900	2	15	07/01/77	11	37.0					
36318	M	35	32.297	105.898	2	15	07/01/77	11	37.0					
36319	M	35	32.313	105.888	2	15	07/01/77	11	37.0					
36320	M	35	32.327	105.881	2	15	07/01/77	11	37.0					
36321	H	35	32.341	105.877	2	97	07/01/77	11	38.0					
36322	M	35	32.367	105.860	2	15	07/01/77	11	37.0					
36323	M	35	32.323	105.814	2	15	07/01/77	12	36.0					
36324	M	35	32.318	105.817	2	15	07/01/77	12	37.0					
36325	M	35	32.297	105.819	2	15	07/01/77	12	37.0					
36326	H	35	32.269	105.773	2	97	07/01/77	13	37.0					
36327	M	35	32.266	105.772	2	15	07/01/77	13	37.0					
36328	M	35	32.301	105.761	2	15	06/01/77	13	36.0					
36329	M	35	32.310	105.763	2	15	07/01/77	13	36.0					
36330	M	35	32.371	105.751	2	15	07/01/77	14	36.0					
36331	M	35	32.389	105.759	2	15	07/01/77	14	36.0					
36332	M	35	32.389	105.779	2	15	07/01/77	15	36.0					
36333	M	35	32.409	105.792	2	15	07/01/77	15	36.0					
36334	M	35	32.419	105.799	2	15	07/01/77	15	36.0					
36335	M	35	32.431	105.799	2	15	07/01/77	15	36.0					
36336	H	35	32.442	105.796	2	97	07/01/77	16	36.0					
36337	M	35	32.459	105.752	2	15	07/01/77	16	36.0					
36338	M	35	32.486	105.770	2	15	07/01/77	17	36.0					
36339	M	35	32.489	105.733	2	15	07/01/77	17	36.0					
36340	M	35	32.491	105.738	2	15	07/01/77	17	36.0					
36341	M	35	32.490	105.809	2	15	07/01/77	17	35.0					
36342	M	35	32.499	105.831	2	15	07/01/77	18	35.0					
36343	H	35	32.330	105.966	2	97	07/02/77	9	32.0					
36344	M	35	32.311	105.946	2	15	07/02/77	9	33.0					
36345	H	35	32.294	105.935	2	97	07/02/77	9	34.0					
36346	M	35	32.283	105.925	2	15	07/02/77	10	34.0					
36347	M	35	32.315	105.973	2	15	07/02/77	11	34.0					
36348	M	35	32.311	105.992	2	15	07/02/77	11	35.0					
36349	M	35	32.326	105.941	2	15	07/02/77	11	35.0					
36350	M	35	32.333	105.926	2	15	07/02/77	11	35.0					
36351	M	35	32.349	105.922	2	15	07/02/77	12	37.0					
36352	M	35	32.353	105.904	2	15	07/02/77	12	37.0					
36353	H	35	32.373	105.935	2	97	06/02/77	12	37.0					
36354	M	35	32.387	105.943	2	15	07/02/77	12	37.0					
36355	M	35	32.396	105.948	2	15	07/02/77	12	37.0					
36356	M	35	32.410	105.938	2	15	07/02/77	13	39.0					
36357	M	35	32.422	105.931	2	15	07/02/77	13	39.0					
36358	H	35	32.418	105.941	2	97	07/02/77	13	38.0					
36359	M	35	32.436	105.984	2	15	07/02/77	13	39.0					
36360	H	35	32.446	105.991	2	97	07/02/77	13	39.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	C&MT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
36306	1	44	1	6	4	6			3	2	1.50	<2	4.56	11
36307	1	55	1	6	4	6			2	2	2.40	<2	5.34	17
36308	1	41	1	6	4	6			3	2	2.50	<2	4.14	11
36309	1	44	1	6	4	6			3	3	2.20	<2	4.44	13
36310	1	41	1	6	4	6			1	1	2.20	<2	4.92	16
36311	1	50	1	6	4	6			1	1	2.50	<2	5.23	28
36312	1	69	1	6	4	6			1	1	2.10	<2	5.55	17
36313	1	55	1	6	4	6			2	1	2.50	<2	5.84	33
36314	1	30	1	7	4	6			2	1	2.20	<2	4.62	16
36315	1	69	1	6	4	6			2	1	2.70	2	6.21	42
36316	1	69	1	7	6	4			2	1	2.50	<2	5.25	25
36317	1	69	1	6	4	6			2	1	2.50	<2	4.93	28
36318	5	55	1	6	4	6			2	3	2.60	<2	5.31	49
36319	1	41	1	4	4	4			3	1	2.60	<2	4.19	31
36320	1	27	1	1	4	6			3	2	2.20	<2	3.97	19
36321	1	69	1	4	4	6			3	2	2.60	<2	5.70	35
36322	1	41	1	1	4	6			3	2	2.70	<2	4.96	21
36323	1	55	1	7	4	6			2	2	2.20	<2	4.64	15
36324	1	47	1	6	4	6			2	2	2.30	<2	5.15	15
36325	1	69	1	6	4	6			2	2	2.40	<2	5.77	24
36326	1	41	1	6	4	6			2	2	2.10	<2	5.39	19
36327	1	69	1	6	4	6			2	2	2.40	<2	5.54	22
36328	1	69	1	4	4	4			2	2	2.30	<2	5.19	18
36329	1	41	1	6	4	6			2	2	2.40	<2	5.03	18
36330	1	44	1	6	4	6			2	2	2.30	<2	5.05	19
36331	1	50	1	6	4	6			2	2	2.10	<2	4.55	17
36332	1	50	1	6	4	6			2	2	2.80	<2	3.96	11
36333	1	38	1	6	4	6			2	2	2.40	<2	5.03	17
36334	1	69	1	6	4	6			2	2	2.50	<2	5.52	22
36335	1	55	1	6	4	6			2	2	2.60	<2	4.85	13
36336	1	27	1	6	4	6			2	2	2.20	<2	4.93	18
36337	1	33	1	6	4	6			2	2	2.30	<2	3.38	16
36338	1	38	1	7	4	6			2	2	1.60	<2	3.66	12
36339	1	27	1	6	4	6			2	2	2.50	<2	4.13	15
36340	1	50	1	7	4	6			2	2	1.50	<2	3.78	14
36341	1	27	1	6	4	6			2	2	2.40	<2	3.41	12
36342	1	39	1	7	4	6			3	2	2.50	<2	4.04	24
36343	1		1	6	4	6			1	1	1.90	<2	4.78	28
36344	1	41	1	6	4	6			1	1	2.30	<2	4.15	11
36345	1	75	1	6	4	6			2	1	2.60	<2	5.87	33
36346	1	55	1	6	4	6			2	1	2.40	<2	4.37	17
36347	1	38	1	6	4	6			1	1	2.20	<2	5.02	20
36348	1	77	1	6	4	6			1	1	2.40	<2	6.07	28
36349	1	38	1	6	4	6			2	1	2.30	<2	4.67	15
36350	1	41	1	6	4	6			3	1	2.60	<2	4.02	13
36351	1	88	1	6	4	6			3	1	2.30	<2	4.70	13
36352	1	41	1	6	4	6			3	2	2.30	<2	4.53	15
36353	1	55	1	6	4	6			2	2	2.60	<2	4.59	30
36354	1	69	1	6	4	6			2	2	2.40	<2	4.80	24
36355	1	55	1	6	4	6			3	2	2.60	<2	4.21	<10
36356	1	47	1	6	4	6			2	2	2.60	<2	4.37	15
36357	1	44	1	6	4	6			2	2	2.50	<2	4.44	26
36358	1	83	1	6	4	6			2	2	2.70	<2	5.12	24
36359	1	44	1	6	4	6			2	2	2.40	<2	4.56	23
36360	1	27	1	6	4	6			2	2	2.80	<2	6.39	49

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
36306	565	1	2.07	35	<4	17	12	1.36	<15	1.68	16	17	0.33	191	<4
36307	585	1	1.25	47	6	25	16	2.00	<15	1.66	22	21	0.54	403	<4
36308	556	1	2.27	45	4	19	12	1.64	<15	1.54	21	16	0.33	249	<4
36309	546	1	2.94	40	5	21	12	1.61	<15	1.52	20	17	0.53	254	<4
36310	553	1	2.36	42	5	22	16	1.62	<15	1.65	20	15	0.50	291	<4
36311	450	1	5.27	46	6	30	18	2.02	<15	1.62	22	25	0.77	458	<4
36312	594	1	3.70	39	6	23	15	1.70	<15	1.81	17	23	0.60	536	<4
36313	510	2	4.88	52	7	34	21	2.36	18	1.62	24	28	1.07	470	<4
36314	534	1	4.05	31	4	21	11	1.46	<15	1.55	15	18	0.47	244	<4
36315	401	2	8.26	57	9	41	26	2.79	<15	1.51	28	37	1.70	446	<4
36316	526	1	3.73	44	6	26	31	1.82	<15	1.76	18	25	1.04	437	<4
36317	482	1	4.02	41	6	26	15	1.77	<15	1.56	20	26	0.95	317	<4
36318	295	1	5.55	49	8	39	19	2.38	<15	1.35	22	34	1.83	351	<4
36319	379	1	6.54	40	6	27	13	1.66	<15	1.19	18	27	1.51	270	<4
36320	451	1	4.59	37	4	21	13	1.38	<15	1.30	17	22	0.69	234	<4
36321	423	1	7.07	47	7	33	22	2.25	<15	1.61	22	35	1.34	360	<4
36322	497	1	4.02	43	5	25	15	1.80	<15	1.62	20	21	0.63	338	<4
36323	547	1	0.57	43	5	19	12	1.63	<15	1.64	21	17	0.36	287	<4
36324	550	1	0.72	53	6	22	13	1.82	<15	1.70	24	22	0.38	310	<4
36325	557	1	1.40	56	7	27	21	2.21	<15	1.71	27	24	0.69	525	<4
36326	577	1	1.16	47	5	22	16	1.77	<15	1.87	22	22	0.53	357	<4
36327	537	1	0.80	60	8	28	18	2.15	<15	1.73	28	22	0.61	442	<4
36328	556	1	2.18	54	7	25	16	1.95	<15	1.53	26	20	0.53	343	<4
36329	560	1	1.45	49	5	22	15	1.77	15	1.78	22	20	0.50	321	<4
36330	546	1	1.73	53	5	24	15	1.80	<15	1.74	24	20	0.51	334	<4
36331	535	1	3.61	36	5	19	13	1.58	<15	1.56	17	15	0.47	260	<4
36332	533	1	1.86	41	4	19	15	1.61	<15	1.60	19	16	0.29	255	<4
36333	553	1	1.34	47	5	23	13	1.89	<15	1.68	21	15	0.47	325	<4
36334	543	1	0.88	46	5	26	17	2.06	<15	1.84	23	21	0.54	434	<4
36335	549	1	2.55	47	5	23	14	1.74	<15	1.60	22	15	0.45	314	<4
36336	515	1	0.76	55	5	25	14	1.99	<15	1.64	24	15	0.43	316	<4
36337	405	1	6.74	32	<4	17	9	1.17	<15	1.22	15	16	0.66	192	<4
36338	514	1	2.03	33	<4	13	7	1.01	<15	1.42	16	14	0.29	156	<4
36339	474	1	3.61	42	5	20	12	1.67	<15	1.50	21	17	0.40	246	<4
36340	517	1	2.12	27	<4	13	8	0.99	<15	1.45	14	14	0.30	159	<4
36341	465	1	3.86	43	4	18	9	1.52	<15	1.29	20	13	0.30	231	<4
36342	415	1	7.48	35	5	20	12	1.47	<15	1.36	15	23	0.88	262	<4
36343	504	1	4.72	41	7	24	13	1.56	<15	1.46	18	26	0.97	313	<4
36344	531	1	1.82	25	<4	16	9	1.33	<15	1.71	13	16	0.34	203	<4
36345	388	1	9.03	52	9	40	27	2.63	<15	1.40	23	42	2.18	448	<4
36346	469	1	3.71	33	5	22	12	1.62	<15	1.62	16	21	0.65	260	<4
36347	495	1	4.75	37	5	25	16	1.81	<15	1.72	17	27	0.82	286	<4
36348	514	2	3.25	53	7	32	23	2.40	<15	1.73	24	29	1.02	523	<4
36349	507	1	4.28	32	4	22	14	1.57	<15	1.67	15	23	0.68	254	<4
36350	359	1	8.76	28	5	25	14	1.61	<15	1.25	13	25	1.19	250	<4
36351	516	1	4.08	28	4	20	12	1.48	<15	1.67	14	20	0.59	293	<4
36352	471	1	7.16	28	5	21	15	1.49	<15	1.43	13	22	0.80	286	<4
36353	438	1	8.66	37	5	26	15	1.69	<15	1.36	18	25	1.04	293	<4
36354	475	1	5.63	38	5	24	16	1.72	<15	1.49	19	24	0.86	315	<4
36355	461	1	5.57	34	4	22	13	1.61	<15	1.39	17	15	0.55	257	<4
36356	504	1	3.90	31	4	22	12	1.62	<15	1.54	16	20	0.55	250	<4
36357	409	1	7.58	35	5	26	15	1.81	<15	1.28	16	28	1.23	311	<4
36358	386	1	9.84	46	7	36	31	2.23	<15	1.24	20	34	1.77	349	<4
36359	445	1	6.93	44	6	26	16	1.81	<15	1.37	18	26	0.90	271	<4
36360	363	2	11.15	63	9	42	25	2.79	<15	1.53	27	43	1.59	425	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
36306	0.94	8	9	218	23	3	151	5	1921	32	9	37	48
36307	0.89	9	13	342	24	4	166	7	2549	45	14	53	68
36308	0.84	10	12	170	18	3	158	12	2632	41	10	40	56
36309	0.84	11	11	247	19	3	193	10	2207	41	9	36	57
36310	0.89	9	10	334	24	4	190	14	1962	37	10	45	53
36311	0.77	10	15	526	20	5	261	10	2343	45	12	54	62
36312	1.01	8	15	421	12	4	234	4	1929	37	10	47	53
36313	0.65	10	20	595	18	6	211	7	2356	52	14	64	66
36314	0.93	9	11	243	12	3	246	4	1924	36	9	34	50
36315	0.31	14	24	757	25	12	213	14	2368	64	15	76	69
36316	0.89	8	17	350	20	4	188	8	2110	44	10	45	56
36317	0.72	10	18	377	17	4	171	3	2069	45	11	43	58
36318	0.68	10	22	368	17	4	252	3	2263	57	12	44	65
36319	0.60	9	16	291	16	4	207	6	1845	43	10	36	59
36320	0.62	9	11	269	19	4	208	9	1791	35	9	24	52
36321	0.47	9	19	657	16	6	189	7	2167	52	13	66	63
36322	0.84	10	11	422	14	4	174	4	2294	43	11	48	60
36323	0.85	9	4	254	13	4	134	4	2176	36	11	42	57
36324	0.81	10	14	219	20	4	128	7	2240	43	12	45	61
36325	0.78	10	18	575	31	6	167	10	2457	46	16	65	74
36326	0.96	10	10	463	18	4	155	8	2160	38	12	51	61
36327	0.75	12	14	489	32	5	138	11	2535	45	15	60	74
36328	0.75	12	12	349	25	5	154	8	2366	44	13	52	66
36329	0.93	11	11	379	21	4	157	3	2302	39	12	52	61
36330	0.88	11	12	389	21	4	159	10	2295	41	11	49	60
36331	0.78	10	9	293	15	4	178	9	2086	38	10	47	53
36332	0.88	10	6	184	10	3	145	2	2676	43	10	36	54
36333	0.84	10	9	288	21	4	147	2	2508	43	12	50	59
36334	0.88	10	13	450	17	5	152	6	2471	44	14	55	69
36335	0.78	9	13	510	26	4	155	11	2186	42	11	44	57
36336	0.76	12	10	256	27	4	130	8	2581	47	12	45	64
36337	0.61	10	7	233	13	3	184	6	1771	31	9	27	47
36338	0.66	8	7	168	20	2	132	10	1310	25	7	27	34
36339	0.68	10	7	265	11	3	145	4	2329	41	10	54	53
36340	0.68	6	8	170	16	2	130	5	1194	24	6	27	31
36341	0.59	10	7	181	20	3	127	11	2301	38	8	32	49
36342	0.55	8	11	332	21	4	216	5	1716	38	9	40	49
36343	0.73	8	14	306	19	4	219	4	1588	38	9	36	47
36344	0.91	8	9	168	<10	2	147	<2	2007	31	7	31	44
36345	0.50	11	26	557	19	7	333	7	2113	61	13	57	60
36346	0.76	8	12	254	10	4	147	5	2064	38	9	36	53
36347	0.75	8	16	323	15	4	185	6	2056	42	11	41	51
36348	0.68	9	17	586	19	6	175	6	2286	50	13	63	63
36349	0.89	7	10	349	10	4	201	5	2071	37	10	40	55
36350	0.55	9	18	319	10	4	221	2	1838	40	10	35	53
36351	0.87	7	8	383	<10	4	182	2	1844	36	9	38	50
36352	0.70	8	14	392	11	4	208	3	1715	36	10	40	49
36353	0.53	10	18	441	<10	4	220	2	1750	45	11	42	52
36354	0.71	9	13	416	22	4	233	7	1963	40	11	52	52
36355	0.73	9	12	322	11	3	269	3	2045	39	10	39	51
36356	0.81	9	10	289	<10	3	202	<2	2195	40	9	37	53
36357	0.60	8	13	338	18	4	358	3	1787	44	10	42	48
36358	0.47	9	20	519	30	6	401	10	1969	54	13	58	58
36359	0.51	8	15	387	18	5	235	6	1876	46	10	42	47
36360	0.27	12	24	744	18	7	288	5	2243	63	15	73	62

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	COMM	MEAS	PH	CT-F
36361	M	35	32.487	105.899	2	15	07/02/77	14	37.0					
36362	H	35	32.480	105.904	2	97	07/02/77	13	36.0					
36363	M	35	32.472	105.912	2	15	07/02/77	13	36.0					
36364	M	35	32.470	105.926	2	15	07/02/77	13	36.0					
36365	M	35	32.453	105.958	2	15	07/02/77	14	35.0					
36366	M	35	32.403	105.992	2	15	07/02/77	14	32.0					
36367	M	35	32.390	105.988	2	15	07/02/77	15	29.0					
36368	M	35	32.357	105.998	2	15	07/02/77	15	28.0					
36369	M	35	32.356	105.966	2	15	07/02/77	15	27.0					
36370	M	35	32.529	105.936	2	15	07/03/77	9	32.0					
36371	M	35	32.532	105.935	2	15	07/03/77	9	32.0					
36372	M	35	32.547	105.922	2	15	07/03/77	9	32.0					
36373	M	35	32.558	105.907	2	15	07/03/77	10	33.0					
36374	M	35	32.570	105.891	2	15	07/03/77	10	33.0					
36375	M	35	32.575	105.887	2	15	07/03/77	10	33.0					
36376	M	35	32.599	105.868	2	15	07/03/77	10	33.0					
36377	M	35	32.606	105.875	2	15	07/03/77	10	33.0					
36378	M	35	32.626	105.826	2	15	07/03/77	11	35.0					
36379	M	35	32.622	105.821	2	15	07/03/77	11	35.0					
36380	M	35	32.607	105.802	2	15	07/03/77	11	35.0					
36381	M	35	32.606	105.789	2	15	07/03/77	11	36.0					
36382	M	35	32.612	105.789	2	15	07/03/77	11	36.0	29.1	C		9.8	210
36383	M	35	32.631	105.887	2	15	07/03/77	13	32.0					
36384	M	35	32.648	105.891	2	15	07/03/77	13	31.0					
36385	M	35	32.629	105.902	2	15	07/03/77	13	34.0					
36386	H	35	32.631	105.938	2	97	07/03/77	14	34.0					
36387	M	35	32.621	105.963	2	15	07/03/77	15	34.0					
36388	M	35	32.610	105.974	2	15	07/03/77	15	32.0					
36389	M	35	32.606	105.989	2	15	07/03/77	15						
36390	M	35	32.631	105.920	2	15	07/03/77	14	34.0					
36391	M	35	32.632	105.960	2	15	07/03/77	16	30.0					
36392	M	35	32.635	105.981	2	15	07/03/77	16	30.0					
36393	M	35	32.688	105.989	2	15	07/03/77	17	33.0					
36394	H	35	32.674	105.979	2	97	07/03/77	15	32.0					
36395	M	35	32.667	105.952	2	15	07/03/77	15	32.0					
36397	M	35	32.654	105.931	2	15	07/03/77	17	32.0					
36398	H	35	32.665	105.907	2	97	07/03/77	17	32.0					
36400	M	35	32.677	105.896	2	15	07/03/77	18	32.0					
36401	M	35	32.669	105.889	2	15	07/03/77	18	33.0					
36402	M	35	32.645	105.931	2	15	07/03/77	19	31.0					
36403	H	35	32.644	105.954	2	97	07/03/77	19	31.0					
494123	M	35	32.904	105.470	2	15	04/22/78	9	19.0		C			
494124	M	35	32.907	105.477	2	15	04/22/78	9	21.0					
494125	M	35	32.947	105.469	2	15	04/22/78	9	22.0					
494126	M	35	32.947	105.470	2	15	04/22/78	10	21.0					
494128	M	35	32.955	105.415	2	15	04/22/78	10	21.0					
494129	M	35	32.956	105.416	2	15	04/22/78	11	23.0					
494130	M	35	32.949	105.379	2	15	04/22/78	11	24.0					
494131	O	35	32.957	105.474	2	99	04/22/78	11	24.0		C			
494132	M	35	32.965	105.443	2	11	04/22/78	11	25.0	10.4			7.5	500
494133	M	35	32.973	105.441	2	15	04/22/78	12	25.0					
494134	M	35	32.967	105.398	2	15	04/22/78	13	26.0					
494137	M	35	32.979	105.376	2	15	04/22/78	14	25.0					
494138	M	35	32.923	105.397	2	15	04/22/78	14	25.0					
494139	M	35	32.923	105.400	2	12	04/22/78	14	25.0	18.8	C		7.5	680

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
36361	1	47	1	6	4	6			2	3	2.40	<2	4.36	14
36362	1	50	1	6	4	6			2	2	2.50	<2	5.06	26
36363	1	55	1	6	4	6			2	2	2.30	<2	4.38	29
36364	1	41	1	6	4	6			2	3	2.30	<2	4.79	29
36365	1	38	1	6	4	6			2	4	2.00	<2	3.97	18
36366	1	69	1	6	4	6			2	4	2.10	<2	4.13	17
36367	1	41	1	6	4	6			1	4	2.60	<2	4.66	29
36368	1	83	1	6	4	6			1	4	2.30	<2	4.66	20
36369	1	41	1	6	4	6			2	4	2.10	<2	4.25	18
36370	1	38	1	6	4	6			2	1	2.40	<2	5.05	29
36371	1	36	1	6	4	6			2	1	2.00	<2	3.63	14
36372	1	30	1	6	4	6			2	1	2.30	<2	3.80	13
36373	1	27	1	6	4	6			2	1	2.60	<2	3.28	14
36374	1	36	1	6	4	6			2	1	2.30	<2	3.41	22
36375	1	19	1	7	1	6			3	1	1.70	<2	3.20	12
36376	1	22	1	7	4	6			3	1	2.60	<2	3.21	23
36377	1	16	1	6	4	6			3	1	2.20	<2	3.15	11
36378	1	13	1	7	4	6			4	1	2.30	<2	2.77	18
36379	1	19	1	7	3	6			4	1	2.40	<2	3.17	17
36380	1	19	1	7	4	6			4	1	2.50	<2	3.83	30
36381	1	22	1	7	4	6			4	2	2.40	<2	2.80	26
36382	1	25	1	6	6	8		1	4	2	2.60	<2	3.67	20
36383	1	22	1	7	4	6			2	2	2.50	<2	2.75	21
36384	1	27	1	6	4	6			2	4	2.50	<2	3.37	17
36385	1	16	1	6	4	6			2	3	2.20	<2	3.41	22
36386	1	61	1	6	4	6			2	3	2.80	<2	5.28	49
36387	1	27	1	6	4	6			2	3	2.10	<2	3.84	22
36388	1	27	1	6	4	6			2	3	2.20	<2	3.85	22
36389	1	25	1	6	4	6			2	3	2.90	<2	3.73	16
36390	1	36	1	6	4	6			2	3	2.20	<2	3.70	28
36391	1	41	1	6	4	6			1	3	2.30	<2	4.39	24
36392	1	41	1	6	4	6			2	3	2.30	<2	4.04	13
36393	1	47	1	6	4	6			1	3	2.40	<2	4.63	26
36394	1	58	1	6	4	6			2	3	2.70	<2	5.46	54
36395	1	27	1	6	4	6			2	3	2.30	<2	3.94	21
36397	1	36	1	6	4	6			1	3	2.70	<2	4.99	56
36398	1	41	1	6	4	6			2	3	2.50	<2	4.22	32
36400	1	38	1	6	4	6			1	2	3.00	<2	4.35	28
36401	1	63	1	6	4	6			2	2	2.50	<2	4.25	28
36402	1	44	1	6	4	6			1	2	2.40	<2	3.36	30
36403	1	97	1	6	4	6			2	2	3.10	<2	5.92	60
494123	3	13	1	6	5	6			3	1		<2	5.05	26
494124	1	3	1	6	3	1			3	1		<2	4.94	22
494125	1	10	1	6	2	1			3	1		<2	5.30	14
494126	1	6	1	6	1	1			3	1		<2	5.87	14
494128	1	3	1	6	2	1			3	1		<2	5.80	22
494129	1	3	1	6	2	1			3	1		<2	6.34	23
494130	1	6	1	6	2	1			3	1		<2	6.04	20
494131	1	6	1	6	5	6			3	1		<2	6.08	21
494132	3	6	1	6	6	8	2	4	3	1		<2	3.89	16
494133	1	6	1	6	1	1			3	1		<2	5.33	24
494134	1	11	1	6	5	6			3	1		<2	4.18	18
494137	1	4	1	6	2	1			3	1		<2	4.62	15
494138	1	10	1	6	3	1			3	1		<2	5.27	18
494139	3	6	1	6	5	6	3	4	3	1		<2	3.37	19

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	QA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	NN	MO
36361	433	1	4.93	36	4	22	11	1.53	<15	1.55	16	15	0.52	241	<4
36362	414	1	8.21	40	6	32	23	2.02	<15	1.39	20	30	1.42	313	<4
36363	431	1	5.92	39	5	24	14	1.57	<15	1.42	16	24	1.00	259	<4
36364	440	1	6.58	44	5	27	18	1.85	<15	1.41	20	27	1.11	323	<4
36365	493	1	4.72	39	4	20	9	1.38	<15	1.55	20	22	0.67	229	<4
36366	497	1	2.27	49	6	23	10	1.88	<15	1.59	25	20	0.47	292	<4
36367	463	1	5.45	42	5	29	13	2.00	15	1.65	22	27	0.75	325	<4
36368	549	1	2.84	43	5	23	14	1.71	<15	1.85	21	23	0.54	317	<4
36369	532	1	1.49	45	4	21	9	1.68	<15	1.78	23	21	0.46	278	<4
36370	355	1	8.93	39	7	36	15	2.25	<15	1.28	19	33	1.09	391	<4
36371	458	1	4.95	33	4	20	8	1.40	<15	1.32	17	18	0.58	237	<4
36372	442	1	7.26	36	4	22	10	1.52	<15	1.30	17	20	0.74	260	<4
36373	471	1	3.25	43	4	20	8	1.58	<15	1.39	23	16	0.40	251	<4
36374	351	1	7.94	30	<4	21	9	1.37	<15	1.33	15	21	0.81	239	<4
36375	457	1	3.42	29	<4	16	7	1.22	<15	1.49	17	16	0.32	196	<4
36376	345	1	8.49	36	5	23	11	1.64	<15	1.21	17	25	1.29	259	<4
36377	466	1	1.48	49	5	21	7	2.62	<15	1.49	26	15	0.29	406	<4
36378	296	1	9.33	28	4	19	7	1.12	<15	0.95	13	21	0.95	233	<4
36379	454	1	10.25	22	<4	24	8	1.31	<15	1.11	13	20	1.24	228	<4
36380	366	1	9.02	36	6	27	13	1.62	<15	1.27	17	27	1.17	268	<4
36381	280	1	9.92	30	5	20	9	1.24	<15	1.00	13	24	1.35	216	<4
36382	331	1	14.65	27	6	26	13	1.58	<15	1.03	13	23	0.74	223	<4
36383	300	1	9.97	19	4	21	7	1.37	<15	1.00	10	21	0.93	245	<4
36384	399	1	6.37	33	4	20	8	1.43	<15	1.36	16	20	0.60	254	<4
36385	361	1	8.87	28	4	22	10	1.38	<15	1.26	15	24	0.91	245	<4
36386	327	1	11.22	48	9	45	23	2.47	<15	1.48	23	42	1.58	448	<4
36387	427	1	5.52	34	4	23	11	1.49	<15	1.47	17	22	0.74	255	<4
36388	449	1	3.99	36	4	23	10	1.78	<15	1.52	20	21	0.60	282	<4
36389	465	1	1.97	54	5	25	7	2.64	<15	1.61	30	19	0.36	417	<4
36390	369	1	8.00	30	5	25	10	1.46	<15	1.29	15	26	0.93	251	<4
36391	442	1	5.41	37	5	27	13	1.74	<15	1.64	19	26	0.86	324	<4
36392	520	1	2.31	43	4	22	9	1.89	<15	1.58	21	15	0.42	272	<4
36393	445	1	5.36	44	6	30	17	1.88	<15	1.68	22	28	0.87	328	<4
36394	319	1	11.76	44	9	45	21	2.57	<15	1.54	22	45	1.37	396	<4
36395	442	1	7.27	36	5	24	14	1.55	<15	1.49	18	21	0.56	227	<4
36397	283	1	13.07	50	9	45	19	2.38	<15	1.25	21	43	1.75	403	<4
36398	323	1	7.84	36	7	33	17	1.97	<15	1.34	19	30	0.91	389	<4
36400	365	1	10.13	41	7	36	15	1.95	<15	1.32	20	25	0.94	382	<4
36401	362	1	9.71	37	6	33	16	1.88	<15	1.36	18	29	0.91	354	<4
36402	309	1	11.07	27	4	26	9	1.40	<15	1.01	14	24	1.27	258	<4
36403	321	2	11.31	48	9	54	22	2.81	<15	1.53	24	45	1.46	478	<4
494123	395	1	2.01	51	6	29	13	1.68	<15	2.30	22	35	0.56	371	<4
494124	393	1	4.38	51	7	32	12	1.94	<15	1.99	22	28	0.59	359	<4
494125	412	1	4.71	47	6	33	12	1.94	<15	1.77	20	30	0.66	340	<4
494126	467	1	1.10	50	6	34	14	2.12	<15	2.20	23	33	0.46	388	<4
494128	463	1	2.22	59	7	40	15	2.30	<15	2.16	27	33	0.58	480	<4
494129	482	1	1.89	59	8	44	17	2.51	15	2.19	26	33	0.65	519	<4
494130	474	1	1.74	56	8	40	15	2.47	17	2.02	26	31	0.56	494	<4
494131	517	1	0.62	63	7	42	14	2.41	<15	2.26	30	32	0.38	447	<4
494132	372	1	4.77	41	5	24	11	1.32	<15	1.76	18	24	0.75	171	<4
494133	445	1	1.73	54	7	33	14	2.07	<15	1.43	24	32	0.53	441	<4
494134	398	1	2.45	51	6	29	11	1.69	<15	1.26	22	22	0.51	344	<4
494137	436	1	2.42	45	7	30	16	1.95	<15	1.25	20	22	0.50	438	<4
494138	455	1	2.05	50	5	33	13	2.24	<15	1.31	23	26	0.58	475	<4
494139	245	1	4.18	29	<4	20	7	1.15	29	1.15	16	21	0.44	210	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
36361	0.82	9	9	308	14	3	255	3	1998	38	9	37	49
36362	0.59	9	18	616	19	5	369	<2	1822	48	11	55	53
36363	0.74	7	14	302	<10	4	254	3	1848	39	10	35	50
36364	0.60	10	17	444	18	5	208	6	1980	45	11	45	55
36365	0.79	9	9	230	<10	3	195	8	1789	36	10	31	50
36366	0.75	13	9	243	10	4	156	5	2744	48	11	41	62
36367	0.73	11	15	433	<10	5	208	8	2554	50	12	48	70
36368	1.02	11	10	341	15	4	192	7	2353	42	11	44	63
36369	0.82	8	9	246	<10	4	145	7	2316	42	11	42	57
36370	0.57	10	21	547	<10	6	332	6	2216	54	13	54	56
36371	0.69	10	10	256	<10	3	261	6	1996	37	10	32	49
36372	0.71	10	11	311	<10	4	334	5	2009	39	11	34	53
36373	0.74	10	8	170	<10	3	176	8	2780	44	10	31	59
36374	0.62	11	8	267	<10	3	236	6	1906	37	10	32	52
36375	0.79	9	6	142	<10	3	167	3	2242	34	9	26	48
36376	0.53	11	14	254	<10	4	292	2	2186	43	11	32	58
36377	0.75	14	8	136	<10	3	132	4	4533	72	11	45	69
36378	0.50	7	11	189	<10	3	153	5	1439	30	9	25	53
36379	0.60	7	14	340	<10	3	221	5	1674	34	11	45	46
36380	0.59	11	16	337	11	5	242	9	1979	44	12	45	63
36381	0.44	9	10	236	<10	3	192	6	1643	34	9	23	62
36382	0.48	11	14	374	<10	5	284	3	1838	40	12	43	50
36383	0.55	8	8	223	<10	3	175	2	2035	36	10	32	62
36384	0.72	8	9	293	<10	3	192	3	2061	37	11	34	52
36385	0.64	8	11	262	<10	4	206	7	1712	35	10	50	51
36386	0.31	12	27	749	38	7	238	6	2162	62	15	70	62
36387	0.69	8	14	330	<10	4	188	6	1855	38	10	36	48
36388	0.67	9	12	298	<10	4	186	4	2367	47	11	41	52
36389	0.84	15	9	189	<10	4	158	5	4543	73	13	47	67
36390	0.61	7	11	335	<10	4	204	11	1761	38	11	35	55
36391	0.77	9	13	410	<10	5	201	6	2105	43	12	45	55
36392	0.84	12	10	167	11	4	210	8	3007	51	11	35	66
36393	0.73	10	15	654	13	5	257	9	2184	45	13	53	59
36394	0.26	13	25	704	17	8	491	7	2081	64	15	75	58
36395	0.71	10	11	388	10	4	293	11	2056	40	11	39	52
36397	0.22	12	25	557	11	7	251	11	1807	63	14	55	54
36398	0.41	9	21	759	13	5	220	6	1891	49	13	55	53
36400	0.57	11	20	678	12	5	285	9	2149	50	14	59	56
36401	0.61	10	18	573	<10	5	276	8	2152	49	14	56	61
36402	0.53	10	11	296	<10	4	219	6	1668	36	11	35	56
36403	0.20	12	30	938	13	8	230	5	2340	69	17	52	63
494123	0.86	9	13	452	14	4	199	7	2296	44	11	47	69
494124	0.64	10	12	340	20	4	230	9	2475	46	12	51	69
494125	0.72	9	14	370	21	5	346	10	2215	47	12	55	60
494126	0.90	9	16	345	13	5	325	5	2781	52	14	57	76
494128	0.82	12	15	569	24	6	394	7	2887	56	16	66	75
494129	0.82	11	15	609	24	6	350	9	2881	57	16	72	77
494130	0.75	11	16	446	31	6	218	10	2884	59	15	62	75
494131	0.98	11	16	472	26	6	442	7	3306	62	16	65	85
494132	0.68	9	11	468	26	3	261	8	2023	36	10	42	54
494133	0.69	12	14	434	24	5	317	10	2473	52	13	55	68
494134	0.62	11	13	389	27	4	226	8	2387	44	11	45	61
494137	0.58	9	13	412	16	4	252	6	2402	47	11	52	60
494138	0.61	10	14	450	22	5	250	5	2665	54	13	57	67
494139	0.56	7	8	291	11	3	203	2	1961	29	8	30	59

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAR	NTYP	DATE	HOUR	ATEM	WTEM	COMM	MEAS	PH	CT-F
494140	M	35	32.920	105.427	2	15	04/22/78	15	25.0					
494141	M	35	32.914	105.458	2	15	04/22/78	15	25.0					
494142	M	35	32.865	105.400	2	15	04/22/78	16	26.0					
494145	M	35	32.883	105.425	2	15	04/22/78	16	27.0					
494147	M	35	32.856	105.457	2	15	04/22/78	17	26.0					
494148	M	35	32.853	105.457	2	15	04/22/78	17	26.0					
494151	M	35	32.969	105.321	2	15	04/19/78	10	20.0					
494152	M	35	32.985	105.330	2	15	04/19/78	11	22.0					
494153	M	35	32.987	105.325	2	15	04/19/78	11	22.0					
494155	M	35	32.942	105.299	2	15	04/19/78	11	23.0					
494156	M	35	32.932	105.280	2	11	04/19/78	12	22.0	15.0	C		7.0	375
494157	M	35	32.930	105.279	2	15	04/19/78	12	23.0					
494158	M	35	32.940	105.276	2	15	04/19/78	13	24.0					
494161	M	35	32.944	105.252	2	15	04/19/78	14	25.0					
494162	N	35	32.920	105.257	2	15	04/19/78	14	25.0					
494163	N	35	32.909	105.256	2	15	04/19/78	15	25.0					
494165	N	35	32.876	105.254	2	15	04/19/78	15	25.0					
494169	M	35	32.904	105.350	2	15	04/19/78	17	23.0					
494171	M	35	32.916	105.358	2	15	04/19/78	18	23.0					
494173	M	35	32.862	105.340	2	15	04/22/78	9	22.0					
494176	M	35	32.867	105.274	2	15	04/22/78	11	26.0					
494179	M	35	32.853	105.272	2	15	04/22/78	13	27.0					
494181	M	35	32.840	105.264	2	15	04/22/78	13	27.0					
494182	M	35	32.829	105.262	2	15	04/22/78	13	27.0					
494183	M	35	32.824	105.256	2	15	04/22/78	13	27.0					
494186	M	35	32.824	105.201	2	15	04/22/78	14	27.0		C			
494189	M	35	32.786	105.279	2	15	04/22/78	15	27.0					
494190	M	35	32.789	105.304	2	15	04/22/78	15	27.0					
494191	N	35	32.788	105.309	2	15	04/22/78	15	27.0					
494192	N	35	32.781	105.311	2	15	04/22/78	15	27.0					
494194	N	35	32.777	105.322	2	15	04/22/78	16	27.0					
494196	N	35	32.777	105.337	2	15	04/22/78	16	27.0					
494197	N	35	32.779	105.336	2	15	04/22/78	16	27.0					
494198	M	35	32.922	105.248	2	15	04/23/78	10	26.0					
494200	M	35	32.899	105.214	2	15	04/23/78	11	27.0					
494202	M	35	32.990	105.924	2	15	04/20/78	11	30.0					
494204	M	35	32.991	105.867	2	15	04/20/78	11	33.0					
494205	M	35	32.991	105.848	2	15	04/20/78	12	33.0					
494206	M	35	32.987	105.791	2	15	04/20/78	12	34.0					
494208	M	35	32.958	105.780	2	15	04/20/78	13	34.0					
494209	M	35	32.939	105.796	2	15	04/20/78	13	33.0					
494211	M	35	32.917	105.809	2	15	04/20/78	14	33.0					
494212	M	35	32.914	105.811	2	15	04/20/78	15	32.0					
494213	M	35	32.881	105.805	2	15	04/20/78	15	32.0					
494214	M	35	32.898	105.755	2	15	04/20/78	15	30.0					
494215	M	35	32.857	105.782	2	15	04/20/78	15	30.0					
494216	M	35	32.830	105.784	2	15	04/20/78	15	30.0					
494219	M	35	32.772	105.788	2	15	04/20/78	16	30.0					
494220	M	35	32.791	105.791	2	15	04/20/78	17	28.0					
494221	M	35	32.947	105.843	2	15	04/20/78	17	28.0					
494223	M	35	32.956	105.876	2	15	04/20/78	18	27.0					
494224	M	35	32.966	105.886	2	15	04/20/78	18	27.0					
494225	M	35	32.964	105.896	2	15	04/20/78	18	26.0					
494226	M	35	32.958	105.927	2	15	04/20/78	18	27.0					
494227	M	35	32.946	105.934	2	15	04/21/78	15	34.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
494140	1	10	1	6	2	1			3	1		<2	4.85	18
494141	1	5	1	6	3	1			3	1		<2	3.57	19
494142	1	11	1	6	2	1			3	1		<2	5.14	24
494145	1	5	1	6	3	1			3	1		<2	6.19	24
494147	1	33	1	6	5	6			2	1		<2	5.98	22
494148	1	18	1	6	5	6			2	1		<2	5.29	17
494151	3	4	1	6	4	6			2	2		<2	4.41	19
494152	3	7	1	6	2	6			2	2		<2	5.28	20
494153	3	9	1	6	2	6			2	2		<2	6.54	28
494155	3	10	1	6	2	6			3	1		<2	5.45	24
494156	3	6	1	6	6	6	2	1	3	1		<2	2.47	13
494157	3	3	1	6	2	6			3	1		<2	3.67	25
494158	3	5	1	6	2	6			3	1		<2	4.35	21
494161	3	4	1	6	2	6			3	1		<2	4.95	22
494162	3	16	1	6	4	6			3	1		<2	6.27	24
494163	3	1	1	6	2	6			3	1		<2	4.92	19
494165	3	9	1	6	2	6			3	1		<2	5.43	21
494169	1	4	1	6	4	6			3	1		<2	5.20	20
494171	3	7	1	6	2	6			3	1		<2	5.39	17
494173	3	6	1	6	4	6			2	1		<2	5.93	22
494176	3	7	1	6	2	6			3	1		<2	4.79	19
494179	3	4	1	6	2	6			3	1		<2	3.87	13
494181	3	2	1	6	2	6			3	1		<2	4.65	16
494182	3	7	1	6	4	6			2	1		<2	3.59	12
494183	3	6	1	6	4	6			2	1		<2	5.38	18
494186	3	12	1	6	4	6			2	1		<2	5.22	19
494189	3	7	1	6	2	6			2	1		<2	4.53	18
494190	3	13	1	6	4	6			2	1		<2	4.86	19
494191	3	5	1	6	2	7			2	1		<2	5.32	17
494192	3	7	1	6					2	1		<2	5.49	21
494194	3	8	1	6	2	7			2	1		<2	5.79	18
494196	3	11	1	6	2	7			2	1		<2	5.78	21
494197	3	2	1	6	2	7			2	1		<2	5.07	17
494198	3	6	1	6	2	7			3	1		<2	5.15	23
494200	3	3	1	6	2	7			3	1		<2	4.18	21
494202	1	6	1	1	4	4			3	1		<2	3.54	22
494204	1	7	2	7	4	4			3	1		<2	4.25	30
494205	1	5	2	7	4	4			3	1		<2	3.39	19
494206	1	2	2	7	3	1			4	1		<2	3.82	28
494208	1	7	2	7	3	7			3	1		<2	4.08	25
494209	1	7	2	7	5	7			2	1		<2	3.32	29
494211	1	7	2	7	5	6			3	1		<2	3.76	31
494212	1	8	2	7	5	7			3	1		<2	5.03	21
494213	1	8	2	7	5	8			2	1		<2	5.59	21
494214	1	7	2	7	5	8			2	1		<2	4.98	25
494215	1	9	2	7	5	8			2	1		<2	5.95	25
494216	1	7	1	1	5	7			3	1		<2	2.85	18
494219	1	10	1	1	5	8			2	1		<2	5.79	23
494220	1	9	1	1	5	8			2	1		<2	5.45	23
494221	1	5	1	4	4	4			2	1		<2	5.37	26
494222	1	4	2	7	4	4			3	1		<2	3.86	13
494224	1	9	2	7	5	4			3	1		<2	3.78	20
494225	1	7	2	7	4	4			3	2		<2	4.03	17
494226	1	10	2	7	4	4			3	2		<2	3.90	15
494227	1	4	2	7	4	3			2	1		<2	3.90	16

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
494140	434	1	3.00	53	7	39	13	2.20	<15	1.14	25	22	0.67	422	<4
494141	337	1	5.01	31	<4	19	7	1.12	<15	1.33	11	25	0.65	180	<4
494142	423	1	4.47	54	7	38	14	2.09	23	1.39	24	31	0.57	394	<4
494145	497	2	0.99	66	8	44	17	2.55	<15	1.50	31	29	0.48	484	<4
494147	489	2	0.99	62	8	41	18	2.39	<15	1.56	29	30	0.44	487	<4
494148	512	1	0.50	65	8	31	16	2.10	<15	1.53	30	25	0.30	564	<4
494151	417	1	1.83	61	6	36	12	2.16	<15	1.23	27	20	0.47	403	<4
494152	438	1	2.18	59	7	38	15	2.34	<15	1.33	25	26	0.66	454	<4
494153	457	2	1.57	67	10	43	20	2.80	15	1.55	31	35	0.82	518	<4
494155	438	1	3.71	59	7	43	15	2.36	31	1.55	25	28	0.73	459	<4
494156	286	<1	7.65	18	<4	13	5	0.61	<15	1.28	7	20	0.50	71	<4
494157	303	1	3.69	36	4	19	8	1.09	<15	1.45	15	35	1.14	154	<4
494158	378	1	5.72	52	6	37	13	2.00	<15	1.21	23	21	0.77	382	<4
494161	398	1	4.39	64	8	43	16	2.30	<15	1.28	27	24	0.84	470	4
494162	429	2	3.51	56	8	44	17	2.36	<15	1.53	24	40	0.85	220	<4
494163	419	1	4.76	48	7	35	15	2.10	<15	1.34	21	23	0.68	384	<4
494165	433	1	3.09	58	7	44	16	2.28	<15	1.25	26	26	0.67	442	<4
494169	421	1	2.62	48	6	36	15	2.08	<15	1.50	23	30	0.49	414	<4
494171	453	1	1.83	60	8	39	16	2.27	<15	1.46	27	26	0.57	457	<4
494173	455	2	1.38	59	8	47	17	2.44	22	1.55	26	30	0.60	479	<4
494176	425	1	4.17	50	7	30	13	1.90	17	1.40	22	25	0.70	347	<4
494179	395	1	3.57	47	6	27	10	1.73	<15	1.19	21	18	0.64	330	<4
494181	452	1	1.83	45	5	29	14	1.81	<15	1.38	21	21	0.49	335	<4
494182	420	1	3.73	66	5	29	9	2.23	<15	1.25	31	15	0.27	410	<4
494183	480	1	3.32	56	7	36	14	2.26	<15	1.65	28	28	0.56	439	<4
494186	471	1	3.75	46	5	31	14	2.05	<15	1.78	24	30	0.68	393	<4
494189	452	1	4.39	45	6	30	11	1.88	<15	1.53	24	25	0.73	371	<4
494190	474	1	3.05	45	6	33	14	1.96	<15	1.64	24	26	0.69	413	4
494191	457	1	3.61	40	6	31	17	2.00	<15	1.59	21	31	0.71	332	<4
494192	518	1	2.67	50	6	41	13	2.30	<15	1.85	28	31	0.65	453	<4
494194	525	1	1.76	55	7	43	13	2.39	15	1.70	28	31	0.52	473	<4
494196	523	1	1.68	60	8	42	14	2.43	<15	1.67	30	31	0.51	480	<4
494197	501	1	2.44	48	6	35	12	2.12	<15	1.72	26	27	0.58	431	<4
494198	441	1	3.39	58	7	45	14	2.30	<15	1.60	29	28	0.79	464	4
494200	390	1	7.02	41	5	34	12	1.87	<15	1.40	21	22	0.62	359	<4
494202	481	1	8.41	53	9	50	9	4.21	<15	1.14	25	21	1.07	660	<4
494204	324	1	10.27	40	12	30	26	2.98	<15	1.12	19	22	0.72	590	<4
494205	371	1	5.11	31	4	20	8	1.80	<15	1.22	15	22	0.68	300	<4
494206	336	1	5.13	33	4	26	12	1.46	<15	1.25	15	34	1.36	292	<4
494208	390	1	3.89	33	5	28	12	1.63	<15	1.70	17	35	0.95	321	<4
494209	293	1	7.01	36	4	23	9	1.15	<15	1.32	15	30	0.97	237	<4
494211	287	1	3.43	34	4	24	9	1.29	<15	1.35	16	32	0.81	227	<4
494212	468	1	3.22	43	7	41	16	2.10	<15	1.67	22	32	0.59	512	<4
494213	469	2	1.20	52	7	46	22	2.41	<15	1.64	26	42	0.48	591	<4
494214	409	1	1.04	38	6	36	15	1.88	<15	1.92	21	42	0.66	451	<4
494215	514	2	1.36	48	8	55	18	2.62	<15	1.77	27	40	0.51	569	<4
494216	250	1	19.10	19	4	23	10	1.14	<15	0.88	9	26	0.49	269	<4
494219	517	1	0.94	57	8	56	19	2.46	<15	1.86	28	42	0.41	668	4
494220	513	2	0.90	62	8	52	19	2.40	<15	1.68	30	36	0.44	747	<4
494221	407	2	2.75	61	10	37	16	2.58	<15	1.43	31	33	0.50	513	<4
494223	208	1	15.40	30	9	46	11	2.81	<15	0.44	15	22	0.60	343	<4
494224	311	1	12.48	33	7	37	13	2.34	<15	0.82	16	24	0.84	325	<4
494225	319	1	10.71	27	6	35	11	2.26	<15	1.00	15	27	0.78	284	<4
494226	414	1	8.43	52	8	36	12	3.53	15	0.97	24	23	0.63	446	<4
494227	397	1	9.38	38	7	30	10	2.52	<15	0.90	19	22	0.65	366	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
494140	0.56	12	17	485	23	5	290	8	2817	52	13	61	70
494141	0.43	6	9	320	<10	3	172	3	1596	30	7	25	54
494142	0.60	11	15	528	24	5	305	8	2493	52	12	62	67
494145	0.65	12	21	442	42	6	221	16	2936	61	17	67	81
494147	0.69	11	17	625	26	6	322	11	2752	58	16	70	75
494148	0.77	11	12	460	18	5	238	12	3096	52	16	56	81
494151	0.57	11	13	495	27	5	261	11	3229	53	13	57	80
494152	0.61	11	13	537	15	5	300	9	2986	56	14	64	78
494153	0.60	13	20	661	29	7	227	9	3041	65	17	77	86
494155	0.60	12	19	690	25	5	377	6	2759	55	14	72	72
494156	0.30	6	4	232	<10	2	88	5	1132	18	5	15	37
494157	0.34	5	9	325	17	3	81	8	1562	27	7	27	52
494158	0.50	13	15	668	24	4	309	10	2570	49	13	59	68
494161	0.48	13	18	663	42	5	327	16	2783	56	12	66	71
494162	0.59	10	14	564	17	6	476	<2	2836	62	15	75	74
494163	0.56	11	12	606	24	5	248	3	2626	49	13	62	70
494165	0.55	12	17	660	23	6	437	8	2530	54	14	70	70
494169	0.65	10	17	522	21	5	246	4	2653	51	13	61	73
494171	0.64	11	14	541	30	6	198	10	2752	56	14	63	76
494173	0.66	11	15	582	22	6	237	5	2788	57	15	73	75
494176	0.67	10	14	407	25	4	209	7	2427	45	12	53	64
494179	0.51	12	16	296	16	4	176	6	2481	43	11	41	61
494181	0.59	10	16	285	15	4	156	8	2355	42	12	45	62
494182	0.55	15	9	190	14	4	121	4	4596	59	15	43	102
494193	0.72	11	16	454	18	6	241	9	2895	54	16	63	80
494186	0.74	11	15	536	13	5	199	3	2633	46	15	61	73
494189	0.69	10	12	368	<10	5	236	6	2706	46	14	52	74
494190	0.80	10	14	605	14	5	273	6	2671	45	14	66	74
494191	0.78	11	22	305	10	5	232	3	2543	48	13	70	72
494192	0.83	11	16	551	<10	6	417	5	3125	54	16	68	81
494194	0.79	11	16	451	12	6	425	9	3023	56	17	66	83
494196	0.78	12	18	464	13	6	304	8	3124	59	17	67	84
494197	0.81	12	15	381	<10	5	214	6	3083	54	16	54	81
494198	0.67	13	17	638	15	6	275	7	3078	60	15	66	86
494200	0.59	12	15	650	<10	5	233	6	2711	49	13	53	78
494202	0.79	25	17	702	<10	6	270	8	8671	132	26	55	205
494204	0.39	12	22	674	<10	7	483	8	3624	74	17	102	88
494205	1.01	12	8	461	<10	4	372	<2	3402	54	14	46	96
494206	0.73	10	12	591	<10	4	276	4	2133	41	11	45	66
494208	0.79	9	11	438	20	4	197	4	2324	44	11	57	70
494209	0.68	9	10	372	13	4	174	6	1721	33	9	34	63
494211	0.92	6	12	315	13	4	115	2	1893	33	9	25	85
494212	0.94	10	17	712	12	5	399	4	2748	58	14	87	70
494213	0.89	10	22	918	20	6	542	8	2892	66	17	56	78
494214	0.82	6	18	903	<10	5	365	5	2464	48	14	62	81
494215	0.96	10	29	1022	16	7	762	<2	3175	74	18	105	85
494216	0.34	10	13	667	10	3	334	8	1441	31	8	58	47
494219	1.05	11	27	958	34	7	1136	5	3118	73	18	136	79
494220	0.91	11	24	1453	33	6	1304	8	3070	68	18	142	82
494221	0.82	14	20	255	31	6	197	11	3704	67	18	58	94
494223	0.26	12	24	384	12	7	454	8	4754	77	14	48	72
494224	0.50	11	19	543	<10	6	389	4	3871	58	16	54	86
494225	0.64	12	18	417	<10	6	284	6	3677	58	16	53	90
494226	0.91	17	17	579	24	6	355	8	6784	98	21	64	137
494227	0.83	13	16	453	14	5	369	7	3938	65	16	57	83

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	COMM	MEAS	PH	CT-F
494228	M	35	32.923	105.868	2	15	04/21/78	16	33.C					
494229	M	35	32.911	105.862	2	15	04/21/78	16	34.C					
494230	M	35	32.904	105.861	2	15	04/21/78	17	33.C					
494231	M	35	32.901	105.863	2	15	04/21/78	17	33.C					
494232	M	35	32.902	105.834	2	15	04/21/78	17	31.0					
494233	M	35	32.876	105.835	2	15	04/21/78	17	32.0					
494234	M	35	32.874	105.835	2	11	04/21/78	17	32.0	11.2			7.8	750
494235	M	35	32.854	105.825	2	15	04/21/78	18	30.0					
494236	M	35	32.858	105.823	2	15	04/21/78	18	30.0					
494237	M	35	32.843	105.832	2	15	04/21/78	18	28.0					
494238	M	35	32.816	105.829	2	15	04/21/78	18	26.0					
494239	M	35	32.814	105.837	2	15	04/21/78	18	25.0					
494240	M	35	32.798	105.831	2	15	04/21/78	18	28.0					
494241	M	35	32.755	105.837	2	15	04/21/78	19	28.0					
494242	M	35	32.768	105.836	2	15	04/21/78	18	25.0					
494243	M	35	32.846	105.854	2	15	04/22/78	9	30.0					
494244	M	35	32.842	105.855	2	12	04/22/78	9	30.0	11.2			8.2	1250
494246	M	35	32.893	105.905	2	15	04/22/78	12	34.0					
494247	M	35	32.904	105.917	2	15	04/22/78	13	34.0					
494248	M	35	32.910	105.913	2	15	04/22/78	13	34.0					
494249	M	35	32.914	105.919	2	15	04/22/78	13	34.0					
494251	M	35	32.983	105.698	2	11	04/22/78	9	22.0	8.8	C		7.7	525
494253	M	35	32.956	105.709	2	11	04/22/78	10	22.0	9.4	C		7.6	700
494255	M	35	32.998	105.619	2	15	04/22/78	11	24.0					
494256	M	35	32.978	105.579	2	11	04/22/78	11	25.0	14.2	C		7.4	700
494257	M	35	32.989	105.573	2	15	04/22/78	11	25.0					
494258	M	35	32.985	105.536	2	15	04/22/78	12	25.0					
494259	M	35	32.982	105.527	2	15	04/22/78	12	26.0					
494260	M	35	32.986	105.531	2	11	04/22/78	12	25.0	22.2			7.8	420
494261	M	35	32.937	105.503	2	15	04/22/78	13	25.0		C			
494262	M	35	32.912	105.537	2	15	04/22/78	14	26.0		C			
494263	M	35	32.932	105.594	2	15	04/22/78	14	26.0					
494264	M	35	32.933	105.648	2	11	04/22/78	15	25.0	14.2			7.9	490
494265	M	35	32.938	105.618	2	15	04/22/78	15	24.0		C			
494266	M	35	32.942	105.626	2	11	04/22/78	15	24.0	17.1			8.2	330
494267	M	35	32.926	105.731	2	15	04/22/78	16	24.0					
494268	M	35	32.919	105.731	2	15	04/22/78	16	24.0					
494269	M	35	32.915	105.713	2	11	04/22/78	16	23.0	12.9			8.3	490
494270	M	35	32.896	105.680	2	15	04/22/78	17	23.0					
494271	M	35	32.892	105.681	2	15	04/22/78	17	23.C					
494272	M	35	32.887	105.705	2	11	04/22/78	17	22.C	13.1			7.6	500
494273	M	35	32.884	105.706	2	12	04/22/78	17	22.C	8.7			7.6	450
494274	M	35	32.897	105.724	2	11	04/22/78	18	22.C	7.8	C		7.7	490
494275	M	35	32.895	105.735	2	12	04/22/78	18	21.C	5.6			7.7	525
494276	O	35	32.901	105.685	2	99	04/22/78	19	20.0		C			
494278	M	35	32.867	105.626	2	15	04/23/78	10	24.0					
494279	M	35	32.874	105.674	2	11	04/23/78	10	25.0	10.9			7.3	495
494280	M	35	32.863	105.508	2	15	04/23/78	11	26.0					
494281	M	35	32.870	105.516	2	11	04/23/78	11	25.0	14.3	C		7.3	525
494283	M	35	32.870	105.531	2	15	04/23/78	12	27.0					
494284	M	35	32.873	105.554	2	15	04/23/78	12	25.0					
494287	M	35	32.903	105.630	2	15	04/23/78	14	27.0					
494288	M	35	32.921	105.587	2	15	04/23/78	15	27.0					
494289	M	35	32.850	105.541	2	15	04/23/78	15	26.0					
494290	M	35	32.836	105.583	2	11	04/23/78	16	25.0	18.9			8.0	390

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
494228	1	4	2	7	4	3			3	1		<2	5.29	21
494229	1	7	2	7	4	3			3	1		<2	3.75	12
494230	1	8	2	7	4	3			3	1		<2	4.26	17
494231	1	5	2	7	5	3			3	1		<2	5.02	26
494232	1	11	2	7	5	4			2	1		<2	4.73	32
494233	1	13	2	7	4	8			2	1		<2	3.34	23
494234	1	8	2	7	6	8	3	1	2	1		<2	4.26	23
494235	1	9	2	7	5	4			3	1		<2	4.76	25
494236	1	10	2	7	5	4			3	1		<2	4.30	32
494237	1	10	2	7	5	4			3	1		<2	3.83	27
494238	1	12	2	7	5	4			2	1		<2	4.99	22
494239	1	19	2	7	5	4			2	1		<2	5.49	36
494240	1	5	2	7	5	4			3	1		<2	3.76	30
494241	1	19	2	7	5	4			3	1		<2	7.12	37
494242	1	11	2	7	5	4			3	1		<2	4.46	21
494243	1	7	2	7	5	6			3	1		<2	4.67	30
494244	1	5	2	7	5	6	3	1	3	1		<2	4.63	31
494246	1	1	2	7	4	1			2	1		<2	3.50	20
494247	1	3	2	7	5	2			2	1		<2	3.95	22
494248	1	3	2	7	4	2			2	1		<2	3.75	25
494249	1	4	2	7	3	7			2	1		<2	4.31	34
494251	1	11	1	6	5	6	3	1	2	2		<2	5.31	31
494253	3	9	1	6	5	6	2	1	2	2		<2	5.46	27
494255	3	20	1	6	5	6			2	2		<2	5.84	25
494256	1	6	1	6	5	6	2	1	2	2		<2	3.45	18
494257	3	13	1	6	5	6			2	2		<2	5.37	21
494258	3	20	1	6	5	6			3	2		<2	4.97	22
494259	3	16	1	6	5	6			2	2		<2	4.96	22
494260	3	16	1	6	5	6	2	5	2	2		<2	3.99	30
494261	3	6	1	6	4	6			3	2		<2	5.27	20
494262	3	11	1	6	5	6			3	2		<2	3.35	28
494263	3	13	1	6	5	6			3	2		<2	4.30	22
494264	3	13	1	6	5	6	2	1	3	2		<2	4.40	27
494265	3	9	1	6	5	6			3	2		<2	4.46	21
494266	1	16	1	6	5	6	2	1	3	2		<2	4.38	30
494267	3	11	1	1	5	6			2	2		<2	4.07	28
494268	3	15	1	6	5	6			2	2		<2	5.52	24
494269	1	9	1	6	5	6	2	1	2	2		<2	2.85	16
494270	3	9	1	6	5	6			2	2		<2	4.10	33
494271	3	8	1	6	5	6			2	2		<2	3.53	21
494272	3	16	1	6	5	6	2	1	2	2		<2	3.83	49
494273	3	11	1	6	5	6	3	1	2	2		<2	4.64	30
494274	3	13	1	6	5	6	3	1	2	2		<2	3.68	31
494275	3	15	1	6	5	6	3	1	2	2		<2	4.47	29
494276	3	9	1	6	5	6			2	2		<2	4.76	28
494278	3	12	1	1	5	6			3	2		<2	4.38	29
494279	3	5	1	6	5	6	3	1	3	2		<2	3.65	19
494280	3	6	1	1	2	1			3	2		<2	3.83	23
494281	3	2	1	1	5	1	3	1	3	2		<2	0.81	<10
494283	3	6	1	1	5	6			3	2		<2	4.84	24
494284	3	6	1	6	5	6			2	2		<2	5.37	24
494287	3	16	1	6	5	6			2	2		<2	5.13	21
494288	3	16	1	6	5	6			2	2		<2	4.92	28
494289	3	8	1	6	5	6			3	2		<2	4.17	25
494290	3	8	1	6	5	6	2	1	2	2		<2	4.36	24

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	RE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
494228	448	1	2.72	48	9	38	13	2.29	<15	1.50	25	33	0.47	529	<4
494229	455	1	12.91	32	8	37	10	2.17	<15	0.84	15	28	0.59	304	<4
494230	351	1	6.02	54	8	36	11	2.10	24	1.18	25	25	0.59	446	<4
494231	502	1	5.53	65	11	41	16	4.61	<15	1.23	30	31	0.63	522	<4
494232	332	1	1.63	51	7	34	12	2.11	<15	1.40	25	37	0.72	353	<4
494233	285	1	8.43	29	<4	21	9	1.17	<15	1.22	14	25	0.81	183	<4
494234	353	1	2.03	43	6	30	10	1.62	<15	1.54	21	31	0.70	259	<4
494235	424	1	2.42	42	5	29	12	1.78	<15	1.46	18	30	0.69	322	<4
494236	426	1	3.84	45	6	29	12	1.78	<15	1.17	19	27	0.92	321	<4
494237	332	1	2.98	30	<4	22	7	1.19	<15	1.33	12	25	0.84	194	<4
494238	466	1	1.59	47	6	32	14	1.91	<15	1.48	21	25	0.50	382	<4
494239	296	2	1.28	54	9	34	15	2.25	<15	1.34	24	34	0.79	416	<4
494240	313	1	2.48	37	4	22	8	1.19	<15	1.32	16	28	0.86	178	<4
494241	562	2	1.70	67	15	35	30	3.77	<15	1.59	29	37	1.37	734	<4
494242	507	1	3.53	38	5	27	15	1.82	<15	1.54	18	22	1.26	311	<4
494243	232	2	6.49	52	9	31	14	2.78	<15	1.04	22	25	0.60	559	<4
494244	220	1	7.61	36	9	38	16	2.42	<15	1.08	16	27	0.72	297	<4
494246	337	1	14.26	29	5	28	11	1.74	<15	0.87	14	17	1.65	330	<4
494247	371	1	9.34	35	4	33	10	1.82	<15	0.89	17	31	0.84	248	<4
494248	431	1	11.08	30	4	28	11	1.77	<15	1.03	14	18	1.23	323	<4
494249	216	1	9.19	45	8	45	15	2.34	<15	0.97	19	25	0.75	323	<4
494251	444	2	2.12	54	8	48	20	2.31	<15	1.43	26	36	0.48	489	<4
494253	443	2	3.25	43	5	46	18	2.03	<15	1.58	20	42	0.72	277	<4
494255	498	2	0.69	59	10	48	16	2.47	<15	1.42	29	33	0.38	552	7
494256	353	1	6.56	24	<4	22	10	1.22	<15	1.34	11	24	0.73	218	<4
494257	479	2	0.81	47	6	32	14	2.01	<15	1.67	24	32	0.44	462	<4
494258	460	1	1.22	46	7	29	14	1.82	<15	1.69	21	31	0.42	430	<4
494259	460	2	0.61	46	6	33	13	1.90	<15	1.63	23	29	0.44	400	<4
494260	335	1	4.02	35	5	25	11	1.37	<15	1.38	15	34	0.85	218	<4
494261	474	2	1.52	45	6	30	13	1.95	<15	1.65	21	31	0.55	401	<4
494262	296	1	5.82	29	<4	20	9	1.06	<15	1.37	13	28	0.76	181	<4
494263	422	1	2.51	43	6	29	11	1.61	<15	1.50	20	27	0.52	344	<4
494264	387	1	3.97	37	5	27	12	1.46	<15	1.63	17	40	0.93	296	<4
494265	424	1	3.03	34	5	26	11	1.57	<15	1.54	17	31	0.74	321	<4
494266	383	1	1.35	42	6	29	14	1.66	<15	1.67	19	37	0.60	244	<4
494267	339	1	2.56	39	5	24	11	1.20	<15	1.52	15	25	1.44	199	<4
494268	460	2	1.87	44	7	39	20	2.02	<15	1.85	21	45	0.71	465	<4
494269	276	1	13.02	21	<4	24	11	1.04	<15	0.97	8	21	0.89	194	<4
494270	387	1	2.70	39	5	25	11	1.38	30	1.49	17	32	0.58	307	<4
494271	369	1	7.38	31	4	20	11	1.16	<15	1.32	13	26	0.38	314	<4
494272	321	1	5.39	29	4	26	19	1.34	<15	1.48	13	37	1.05	223	<4
494273	425	1	2.43	43	6	32	16	1.75	<15	1.52	20	33	0.70	378	4
494274	319	1	2.85	28	<4	18	12	0.98	<15	1.44	13	25	1.01	153	<4
494275	409	1	1.74	36	4	29	14	1.58	<15	1.66	17	27	0.66	330	<4
494276	419	1	2.36	40	6	31	15	1.76	<15	1.72	18	38	0.51	398	<4
494278	393	1	1.85	34	5	25	12	1.46	<15	1.76	16	36	0.58	292	<4
494279	419	1	4.79	25	<4	20	9	1.08	<15	1.64	13	22	0.37	196	<4
494280	380	1	2.64	33	4	22	9	1.28	<15	1.46	16	26	0.79	233	4
494281	136	<1	29.84	<10	<4	6	8	0.28	<15	0.27	<2	5	0.26	47	<4
494283	446	1	2.72	40	6	33	13	1.86	<15	1.55	19	30	0.70	365	<4
494284	454	2	3.11	54	8	37	17	2.17	<15	1.55	24	33	0.65	472	<4
494287	451	2	0.70	47	6	33	16	1.80	<15	1.86	22	36	0.52	356	<4
494288	419	1	1.07	44	5	29	13	1.70	<15	1.83	20	36	0.47	335	<4
494289	374	1	5.25	28	4	26	11	1.52	<15	1.39	13	30	0.90	299	<4
494290	394	1	3.97	41	5	30	12	1.64	<15	1.44	18	32	0.70	353	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	ND	NI	P	PB	SC	SR	TH	TI	V	Y	ZH	ZR
494228	0.87	10	20	286	12	6	235	8	3068	58	17	60	77
494229	0.47	11	22	415	<10	6	383	<2	2872	56	16	61	67
494230	0.67	14	19	298	25	6	205	11	3473	56	18	75	93
494231	1.06	15	24	838	49	7	326	13	5975	133	21	75	110
494232	0.84	10	18	270	61	6	135	9	2754	53	13	185	92
494233	0.74	7	9	332	11	4	220	10	1707	33	9	25	74
494234	0.97	7	14	230	<10	5	145	13	2169	44	11	34	81
494235	0.77	8	16	297	19	4	175	2	2416	50	10	42	72
494236	0.73	9	17	253	24	4	152	6	2476	49	11	35	87
494237	0.81	5	14	240	13	3	101	<2	1773	33	7	23	75
494238	0.68	9	15	403	28	4	215	7	2619	52	12	67	78
494239	0.89	11	21	246	26	6	131	5	2843	66	12	46	91
494240	0.82	6	13	293	13	3	80	6	1824	35	7	23	84
494241	1.13	11	24	579	30	11	248	8	4771	123	17	65	82
494242	0.74	9	13	318	19	4	182	<2	2600	49	10	43	64
494243	0.67	15	19	286	12	5	214	6	4686	66	17	50	118
494244	0.60	9	24	506	20	6	221	5	3490	64	13	60	83
494246	0.53	8	17	475	21	4	281	7	2136	51	13	44	52
494247	0.50	10	14	386	15	5	370	2	2747	54	13	46	65
494248	0.56	9	17	479	23	4	325	<2	2351	51	12	51	53
494249	0.55	11	22	614	32	5	406	7	3184	60	15	71	65
494251	0.63	10	30	1388	27	5	1059	8	2998	68	15	190	86
494253	0.71	8	26	873	25	5	603	6	2599	64	12	87	75
494255	0.67	11	26	880	27	6	805	12	3246	75	16	63	86
494256	0.57	5	12	551	<10	3	350	5	1809	37	8	52	47
494257	0.66	11	23	481	16	5	341	3	2965	58	13	58	82
494258	0.70	8	18	476	17	4	319	5	2780	53	12	52	77
494259	0.68	9	17	448	22	5	289	4	3013	55	12	45	86
494260	0.41	5	17	422	20	3	157	7	2006	37	8	41	62
494261	0.74	8	14	390	21	4	287	7	2951	55	12	52	80
494262	0.52	7	9	321	23	3	96	3	1948	32	8	27	70
494263	0.57	8	14	396	36	4	259	10	2603	48	10	65	73
494264	0.45	9	15	420	14	4	266	6	2170	43	9	45	67
494265	0.56	7	17	307	20	4	225	<2	2277	45	10	57	65
494266	0.67	8	21	201	19	4	126	4	2310	48	10	41	78
494267	0.59	6	17	420	27	3	160	11	1792	34	7	35	62
494268	0.74	9	21	1017	20	5	529	3	2672	59	13	56	80
494269	0.36	7	13	425	51	2	242	3	1483	31	7	135	45
494270	0.59	7	17	405	19	4	201	5	2247	42	9	38	73
494271	0.59	8	10	433	<10	3	239	4	1961	37	8	34	62
494272	0.38	7	18	577	12	4	113	3	1841	45	9	60	77
494273	0.62	9	19	711	32	4	350	6	2413	52	11	64	72
494274	0.39	5	12	367	<10	3	102	2	1790	32	6	28	66
494275	0.68	6	17	617	18	4	284	2	2359	46	10	55	74
494276	0.62	3	14	561	15	4	291	4	2581	52	11	56	74
494278	0.65	5	13	429	18	3	180	3	2158	43	9	38	72
494279	0.66	5	10	421	15	2	296	5	2218	31	8	35	66
494280	0.50	5	13	246	17	3	122	8	2041	35	8	29	63
494281	0.14	11	7	351	<10	1	280	3	497	10	2	60	17
494283	0.62	9	16	387	20	4	260	<2	2721	52	11	52	76
494284	0.62	10	17	594	52	5	326	7	2937	63	13	60	80
494287	0.69	8	17	732	26	5	444	9	2692	52	12	60	81
494288	0.69	8	19	367	14	4	165	5	2696	51	11	45	88
494289	0.43	5	15	340	12	3	162	<2	2126	43	9	40	65
494290	0.42	8	15	459	22	4	263	4	2302	45	10	47	68

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEN	COMM	MEAS	PH	CT-F
494291	M	35	32.826	105.522	2	15	04/23/78	16	24.0					
494292	M	35	32.762	105.507	2	15	04/23/78	17	24.0					
494293	M	35	32.770	105.512	2	15	04/23/78	17	24.0					
494294	M	35	32.773	105.512	2	15	04/23/78	17	24.0					
494295	M	35	32.781	105.543	2	11	04/23/78	17	24.0	15.1	C		8.2	160
494296	M	35	32.809	105.541	2	11	04/23/78	18	22.0	10.4			7.8	600
494297	M	35	32.796	105.579	2	12	04/23/78	18	21.0	13.2			7.9	440
494298	M	35	32.787	105.580	2	15	04/23/78	18	21.0					
494299	M	35	32.790	105.576	2	11	04/23/78	18	21.0	10.8			7.9	330
494300	M	35	32.795	105.607	2	15	04/23/78	19	20.0					
494301	M	35	32.820	105.392	2	15	04/22/78	19	23.0					
494302	M	35	32.824	105.451	2	15	04/22/78	19	22.0					
494304	M	35	32.803	105.483	2	15	04/23/78	19	23.0		C			
494305	M	35	32.777	105.483	2	15	04/23/78	19	23.0					
494307	M	35	32.751	105.470	2	15	04/23/78	19	25.0					
494309	M	35	32.738	105.488	2	15	04/23/78	19	25.0					
494310	M	35	32.733	105.481	2	15	04/23/78	19	24.0		C			
494312	M	35	32.701	105.450	2	15	04/23/78	19	27.0					
494313	M	35	32.716	105.440	2	15	04/23/78	19	27.0					
494314	M	35	32.738	105.421	2	15	04/23/78	19	27.0					
494315	M	35	32.737	105.408	2	15	04/23/78	19	27.0					
494317	M	35	32.762	105.402	2	15	04/23/78	19	27.0					
494319	M	35	32.714	105.354	2	15	04/23/78	19	27.0					
494321	M	35	32.704	105.360	2	15	04/23/78	19	28.0					
494322	M	35	32.700	105.404	2	15	04/23/78	19	27.0					
494324	M	35	32.673	105.461	2	15	04/23/78	19	28.0					
494325	M	35	32.673	105.462	2	15	04/23/78	19	28.0					
494326	M	35	32.670	105.460	2	15	04/23/78	19	28.0		C			
494328	M	35	32.644	105.468	2	15	04/23/78	19	28.0					
494330	M	35	32.626	105.415	2	15	04/23/78	19	26.0					
494331	M	35	32.633	105.400	2	15	04/23/78	19	25.0					
494332	M	35	32.634	105.359	2	15	04/23/78	19	27.0					
494334	M	35	32.641	105.339	2	15	04/23/78	19	26.0					
494336	M	35	32.650	105.362	2	15	04/23/78	19	23.0					
494338	M	35	32.645	105.312	2	15	04/23/78	19	17.0					
494340	M	35	32.734	105.295	2	15	04/24/78	12	24.0					
494341	M	35	32.734	105.297	2	15	04/24/78	12	24.0					
494342	M	35	32.734	105.294	2	15	04/24/78	12	24.0					
494343	M	35	32.720	105.231	2	15	04/24/78	12	24.0					
494344	M	35	32.721	105.227	2	15	04/24/78	12	25.0					
494345	M	35	32.684	105.252	2	15	04/24/78	12	25.0					
494348	M	35	32.688	105.229	2	15	04/24/78	13	26.0					
494349	M	35	32.674	105.208	2	15	04/24/78	13	26.0					
494355	M	35	32.817	105.938	2	15	04/22/78	17	26.0					
494356	M	35	32.816	105.935	2	15	04/22/78	17	26.0					
494357	M	35	32.805	105.931	2	15	04/22/78	18	25.0					
494358	M	35	32.755	105.783	2	15	04/24/78	11	30.0					
494359	M	35	32.755	105.777	2	15	04/24/78	11	30.0					
494360	M	35	32.731	105.772	2	15	04/24/78	11	30.0					
494361	M	35	32.719	105.760	2	15	04/24/78	11	30.0					
494362	M	35	32.733	105.828	2	15	04/24/78	12	30.0					
494363	M	35	32.725	105.822	2	15	04/24/78	12	30.0					
494364	M	35	32.715	105.812	2	15	04/24/78	12	30.0					
494365	M	35	32.862	105.907	2	15	04/24/78	15	30.0					
494366	M	35	32.859	105.909	2	15	04/24/78	15	30.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
494291	3	11	1	6	5	6			2	2		<2	5.66	18
494292	3	10	1	1	2	1			3	2		<2	4.78	18
494293	3	16	1	6	5	6			2	2		<2	5.56	21
494294	3	13	1	6	5	6			2	2		<2	4.48	12
494295	3	9	1	6	5	6	2	4	2	2		<2	5.16	14
494296	3	4	1	6	5	6	2	1	2	2		<2	0.79	<10
494297	3	6	1	6	5	6	3	1	2	2		<2	4.39	22
494298	3	6	1	6	5	6			3	2		<2	4.41	28
494299	3	6	1	6	5	6	2	1	2	2		<2	3.75	17
494300	3	9	1	1	5	6			2	2		<2	3.67	18
494301	1	25	1	6	5	6			2	1		<2	6.56	19
494302	1	16	1	6	5	6			2	1		<2	5.32	18
494304	9	10	1	6	2	1			2	1		<2	5.23	11
494305	1	10	1	6	2	1			2	1		<2	5.21	17
494307	1	6	1	6	5	6			3	1		<2	6.14	17
494309	1	25	1	6	5	6			2	1		<2	5.19	10
494310	5	11	1	6	5	6			3	1		<2	6.32	22
494312	1	15	1	6	5	6			2	1		<2	5.78	21
494313	1	15	1	6	5	6			2	1		<2	6.58	18
494314	1	10	1	6	5	6			2	1		<2	6.06	17
494315	1	6	1	6	5	6			2	1		<2	5.89	18
494317	1	13	1	6	5	6			3	1		<2	5.16	21
494319	3	10	1	6	5	6			3	1		<2	5.48	29
494321	1	10	1	6	5	6			2	1		<2	6.40	29
494322	1	6	1	6	5	6			2	1		<2	7.36	36
494324	1	8	1	6	5	6			3	1		<2	5.08	29
494325	1	11	1	6	5	6			3	1		<2	6.23	33
494326	1	10	1	6	7	7			3	1		<2	6.02	32
494328	1	6	1	6	2	1			3	1		<2	5.36	27
494330	1	15	1	6	5	6			2	1		<2	6.08	32
494331	1	10	1	6	2	1			2	1		<2	7.26	38
494332	1	9	1	6	2	1			2	1		<2	4.85	27
494334	1	16	1	6	5	6			2	1		<2	5.27	31
494336	1	8	1	6	2	1			2	1		<2	4.72	30
494338	1	10	1	6	5	6			2	1		<2	5.01	30
494340	1	3	1	6	2	1			2	1		<2	5.12	23
494341	1	3	1	6	2	1			2	1		<2	5.54	33
494342	1	5	1	6	3	1			2	1		<2	5.06	20
494343	1	6	1	6	2	1			2	1		<2	5.31	30
494344	1	5	1	6	2	1			2	1		<2	5.45	29
494345	1	11	1	6	5	6			2	1		<2	6.17	33
494348	1	5	1	6	5	6			2	2		<2	4.57	28
494349	1	5	1	6	2	1			3	1		<2	4.49	26
494355	1	7	2	7	5	1			2	1		<2	4.03	39
494356	1	4	2	7	3	7			2	1		<2	3.54	25
494357	1	7	2	7	3	7			2	1		<2	3.60	35
494358	1	12	2	7	5	7			2	1		<2	5.59	31
494359	1	9	2	7	5	7			2	1		<2	4.69	40
494360	1	10	2	7	5	7			2	1		<2	5.26	36
494361	1	3	2	7	5	7			2	1		<2	4.14	36
494362	1	14	2	7	5	7			2	1		<2	4.92	30
494363	1	3	2	7	5	7			2	1		<2	4.44	33
494364	1	7	2	7	5	7			2	1		<2	4.64	33
494365	1	8	2	7	4	3			3	1		<2	3.36	32
494366	1	4	2	7	3	6			3	1		<2	3.94	49

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
494291	521	2	0.60	50	6	38	14	2.14	<15	1.60	25	25	0.31	401	<4
494292	486	1	2.44	49	7	38	12	1.92	<15	1.42	22	26	0.31	523	<4
494293	516	2	0.94	53	7	40	14	2.18	<15	1.62	25	25	0.37	482	<4
494294	511	1	0.65	42	5	27	11	1.69	<15	1.57	21	22	0.25	365	<4
494295	520	2	0.54	52	6	34	12	1.96	<15	1.47	25	25	0.31	349	<4
494296	130	2	29.97	<10	<4	14	12	0.21	<15	0.24	<2	5	0.19	36	<4
494297	438	1	2.61	46	5	32	11	1.57	<15	1.47	21	25	0.52	275	<4
494298	375	1	1.69	38	5	27	11	1.49	<15	1.77	16	42	0.93	270	<4
494299	348	1	2.75	35	4	25	9	1.25	<15	1.61	16	32	0.75	205	<4
494300	380	1	1.38	31	<4	20	8	1.13	<15	1.63	13	29	0.60	226	<4
494301	555	2	0.46	69	11	39	23	2.68	<15	1.90	32	35	0.41	752	<4
494302	498	2	1.06	54	7	38	14	2.13	<15	1.55	28	25	0.38	422	<4
494304	518	2	0.84	48	6	32	13	1.86	<15	1.62	24	25	0.31	405	<4
494305	477	2	2.22	47	7	37	13	1.91	<15	1.66	21	30	0.33	495	<4
494307	545	2	0.59	57	8	44	17	2.31	<15	1.65	29	31	0.34	515	<4
494309	484	2	3.99	44	6	34	15	1.84	<15	1.55	20	27	0.64	445	<4
494310	539	2	0.95	60	7	46	17	2.38	<15	1.80	29	35	0.39	459	<4
494312	531	2	0.47	51	6	32	20	2.08	<15	1.96	25	30	0.32	420	<4
494313	556	2	0.65	54	8	40	19	2.45	<15	1.97	28	35	0.44	489	<4
494314	545	2	0.67	55	6	38	15	2.20	<15	2.03	25	31	0.37	479	<4
494315	534	2	0.83	56	7	39	16	2.22	<15	1.81	27	25	0.42	459	<4
494317	488	1	2.33	54	8	43	13	2.21	<15	1.76	28	34	0.48	535	<4
494319	533	2	1.15	52	6	31	15	2.09	<15	1.71	26	23	0.39	377	<4
494321	525	2	0.67	63	9	35	19	2.45	<15	1.88	30	31	0.47	492	<4
494322	533	2	0.89	67	10	45	23	2.88	<15	1.91	34	38	0.54	593	<4
494324	512	2	1.73	47	6	36	14	1.91	<15	1.71	22	27	0.33	459	<4
494325	533	2	1.97	54	7	44	18	2.34	<15	1.84	26	34	0.49	541	<4
494326	546	2	0.86	59	8	43	17	2.24	<15	1.73	28	30	0.40	461	<4
494328	536	2	0.77	49	7	38	14	1.98	<15	1.74	24	27	0.38	447	<4
494330	540	2	0.93	53	7	33	18	2.27	<15	1.86	26	28	0.51	429	<4
494331	660	2	2.56	65	8	52	20	2.92	<15	2.03	32	34	0.76	576	<4
494332	530	1	2.38	44	6	27	13	1.83	<15	1.52	21	20	0.52	353	<4
494334	517	2	4.27	51	7	32	20	2.06	<15	1.50	23	20	0.68	417	<4
494336	510	1	2.44	41	5	27	13	1.71	<15	1.53	20	21	0.75	346	<4
494338	506	2	3.69	46	5	30	15	1.97	<15	1.56	21	21	0.62	379	<4
494340	469	2	1.47	52	6	30	14	1.94	<15	1.56	23	21	0.48	348	<4
494341	516	1	2.31	52	5	36	16	2.21	<15	1.57	25	23	0.59	403	<4
494342	506	2	3.16	45	7	36	14	2.10	<15	1.42	22	21	0.78	450	<4
494343	519	2	4.17	44	5	33	13	2.03	<15	1.52	22	23	0.62	392	<4
494344	507	2	2.28	44	6	31	15	2.02	19	1.53	21	23	0.52	398	<4
494345	507	2	4.91	43	6	35	18	2.29	<15	1.54	21	27	0.62	379	<4
494348	450	2	4.07	54	6	31	12	1.95	<15	1.52	23	15	0.51	359	<4
494349	464	2	4.84	45	5	29	13	1.71	<15	1.48	21	20	0.64	334	<4
494355	298	2	10.99	32	5	37	15	1.81	<15	1.30	14	22	1.02	283	<4
494356	378	2	9.50	29	4	23	14	1.66	<15	1.24	14	16	0.88	279	<4
494357	259	2	11.03	30	5	35	14	1.63	<15	0.96	15	20	1.02	271	<4
494358	501	2	0.98	43	6	46	17	2.14	<15	1.70	23	30	0.37	490	<4
494359	443	2	2.78	37	6	38	18	1.82	25	1.35	20	27	0.56	469	<4
494360	452	1	1.15	53	8	53	16	2.29	<15	1.58	27	35	0.41	595	<4
494361	396	2	1.91	37	5	29	13	1.48	25	1.64	17	27	0.40	335	<4
494362	431	2	0.55	44	5	27	13	1.77	<15	1.67	21	26	0.45	401	<4
494363	423	1	2.14	39	5	25	11	1.60	<15	1.50	17	27	0.54	321	<4
494364	451	2	1.76	45	6	28	13	1.84	<15	1.48	21	24	0.41	359	<4
494365	555	2	9.15	38	5	35	16	2.90	<15	0.81	17	15	1.24	414	<4
494366	309	1	9.93	31	4	27	15	1.57	<15	1.29	13	31	1.91	248	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
494291	C.74	11	15	427	23	5	319	4	3040	64	14	57	80
494292	C.66	9	18	559	18	4	418	8	2965	59	12	61	74
494293	0.71	9	19	589	19	5	407	3	3178	62	14	65	85
494294	C.75	10	13	285	17	3	213	5	3147	50	11	43	78
494295	0.70	9	16	302	30	4	216	15	3063	56	12	56	84
494296	0.13	8	5	377	<10	1	244	<2	496	8	2	20	19
494297	C.48	9	14	412	22	4	281	9	2505	49	10	45	71
494298	0.38	5	15	378	14	4	141	8	2206	41	8	35	73
494299	0.34	6	15	320	19	3	182	8	1855	36	8	32	59
494300	0.41	5	12	270	18	3	118	<2	2035	34	7	25	65
494301	C.66	12	21	766	40	7	215	11	3613	76	19	71	102
494302	0.69	10	14	413	25	5	248	12	3291	64	14	52	89
494304	0.73	9	16	326	18	4	267	10	2760	57	13	47	76
494305	C.70	9	18	479	10	4	395	<2	2703	58	12	56	73
494307	C.74	11	19	552	27	6	461	7	3395	70	16	60	92
494309	0.68	10	14	441	21	4	315	3	2662	55	12	46	69
494310	C.77	11	20	502	24	6	343	8	3337	71	16	60	90
494312	C.79	10	13	634	25	5	293	5	3085	60	15	63	84
494313	0.83	10	19	476	22	6	302	7	3442	69	16	60	95
494314	C.85	9	17	420	19	5	266	5	3308	63	15	53	90
494315	0.80	10	15	412	22	5	252	9	3352	63	15	53	91
494317	C.86	11	17	658	<10	5	347	12	3057	53	16	68	83
494319	0.69	9	16	342	20	5	182	11	3035	58	14	52	85
494321	C.67	11	18	434	31	6	161	9	3229	65	17	62	93
494322	0.64	12	23	672	30	7	225	12	3442	78	19	82	102
494324	0.80	9	16	416	24	4	319	8	3041	58	13	51	81
494325	C.77	9	20	554	16	6	391	8	3098	68	16	64	87
494326	0.77	13	16	439	32	5	352	7	3186	66	15	56	89
494328	0.80	10	16	384	21	5	309	2	2965	58	13	50	79
494330	0.76	11	17	408	16	5	170	4	3097	58	15	57	88
494331	C.86	13	25	535	22	7	375	9	4044	81	18	73	110
494332	0.71	9	15	256	18	4	154	7	2813	52	11	42	70
494334	0.63	12	23	485	28	5	196	8	2757	54	13	54	79
494336	0.68	9	11	339	21	4	154	3	2460	46	10	41	67
494338	0.67	10	13	446	21	4	194	8	2922	54	12	51	78
494340	C.66	11	14	293	24	5	170	10	2979	53	12	48	84
494341	0.61	11	18	399	21	5	226	9	3111	61	14	55	86
494342	0.57	9	18	373	21	5	243	9	3034	59	12	58	77
494343	0.66	11	19	355	16	4	260	3	2929	56	13	53	83
494344	0.61	8	19	334	15	4	218	6	2659	54	12	53	74
494345	C.64	9	18	437	13	5	273	2	2786	61	13	62	79
494348	0.66	11	15	332	17	4	209	9	3175	56	11	48	80
494349	C.68	9	11	370	18	4	228	7	2609	49	11	46	72
494355	0.55	9	22	558	24	4	335	2	2217	49	13	55	49
494356	C.65	8	11	425	19	3	294	7	2379	47	11	42	60
494357	0.46	10	22	554	17	4	337	3	2041	46	11	50	49
494358	0.80	9	24	922	15	5	610	3	2818	65	14	107	78
494359	C.61	6	17	1014	25	4	521	8	2326	53	12	56	65
494360	0.80	11	24	892	17	6	829	4	2728	64	17	105	73
494361	C.56	7	14	487	<10	4	249	4	2177	45	10	54	69
494362	0.81	8	13	150	22	4	142	6	2737	50	11	34	81
494363	0.65	6	13	182	14	4	126	9	2210	46	9	34	67
494364	0.62	8	16	218	17	4	153	6	2734	55	11	35	74
494365	C.55	12	18	511	108	5	223	8	6294	84	16	55	118
494366	C.41	5	19	266	<10	4	196	9	1843	47	9	25	60

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	COMP	MEAS	PH	CT-F
494367	M	35	32.861	105.889	2	15	04/24/78	16	28.0					
494368	M	35	32.858	105.884	2	15	04/24/78	16	30.0					
494369	M	35	32.849	105.887	2	15	04/24/78	16	30.0					
494370	M	35	32.851	105.882	2	15	04/24/78	16	30.0					
494371	M	35	32.782	105.920	2	15	04/24/78	16	30.0					
494373	M	35	32.749	105.912	2	12	04/24/78	18	26.0	18.6			7.7	950
494374	M	35	32.711	105.744	2	12	04/25/78	10	28.0	11.5			7.5	480
494375	M	35	32.710	105.742	2	12	04/25/78	10	28.0	11.2			8.1	395
494376	M	35	32.731	105.711	2	15	04/25/78	11	28.0					
494377	M	35	32.729	105.714	2	15	04/25/78	11	28.0					
494378	M	35	32.714	105.686	2	15	04/25/78	11	28.0					
494379	M	35	32.712	105.686	2	11	04/25/78	11	28.0	8.5			7.4	580
494380	M	35	32.710	105.681	2	11	04/25/78	11	28.0	9.0			7.2	560
494381	M	35	32.721	105.655	2	15	04/25/78	12	28.0					
494382	M	35	32.693	105.627	2	15	04/25/78	12	26.0					
494383	M	35	32.696	105.631	2	11	04/25/78	12	26.0	17.2			7.5	600
494384	M	35	32.687	105.724	2	15	04/25/78	13	28.0					
494385	M	35	32.672	105.711	2	15	04/25/78	13	28.0					
494386	M	35	32.682	105.693	2	11	04/25/78	14	28.0	17.2			7.7	1540
494387	M	35	32.652	105.699	2	15	04/25/78	14	28.0					
494388	M	35	32.660	105.647	2	11	04/25/78	15	28.0	10.8			7.8	445
494389	M	35	32.657	105.650	2	15	04/25/78	15	28.0					
494390	M	35	32.652	105.662	2	11	04/25/78	15	28.0	9.8			7.6	540
494391	M	35	32.627	105.703	2	15	04/25/78	15	28.0					
494392	M	35	32.642	105.691	2	15	04/25/78	16	28.0					
494394	M	35	32.626	105.826	2	15	04/26/78	9	30.0					
494395	M	35	32.623	105.820	2	15	04/26/78	9	30.0					
494396	M	35	32.609	105.820	2	15	04/26/78	9	30.0					
494397	M	35	32.609	105.781	2	15	04/26/78	10	30.0					
494398	M	35	32.611	105.782	2	15	04/26/78	10	30.0					
494399	M	35	32.611	105.789	2	15	04/26/78	10	30.0					
494400	M	35	32.625	105.867	2	15	04/26/78	10	30.0					
494403	M	35	32.921	105.151	2	15	04/23/78	12	27.0					
494405	M	35	32.944	105.149	2	15	04/23/78	13	27.0					
494406	M	35	32.944	105.164	2	15	04/23/78	13	27.0					
494408	M	35	32.953	105.167	2	15	04/23/78	13	28.0					
494409	M	35	32.961	105.169	2	15	04/23/78	13	28.0					
494410	M	35	32.974	105.165	2	15	04/23/78	14	28.0		C			
494411	M	35	32.996	105.153	2	15	04/23/78	14	28.0					
494414	M	35	32.862	105.142	2	15	04/24/78	13	26.0		C			
494417	M	35	32.971	105.014	2	15	04/23/78	15	28.0					
494418	M	35	32.966	105.013	2	15	04/23/78	15	28.0					
494421	M	35	32.959	105.104	2	15	04/23/78	17	28.0					
494423	M	35	32.944	105.085	2	15	04/23/78	17	27.0					
494424	M	35	32.858	105.191	2	15	04/23/78	19	23.0					
494425	M	35	32.851	105.194	2	15	04/23/78	19	23.0					
494426	M	35	32.841	105.196	2	15	04/23/78	19	23.0					
494427	M	35	32.851	105.134	2	15	04/24/78	13	26.0		C			
494428	M	35	32.852	105.117	2	15	04/24/78	13	27.0		C			
494430	M	35	32.838	105.087	2	15	04/24/78	14	27.0		C			
494434	M	35	32.782	105.118	2	15	04/24/78	15	27.0		C			
494435	M	35	32.779	105.115	2	15	04/24/78	15	27.0		C			
494437	M	35	32.780	105.147	2	15	04/24/78	16	26.0		C			
494438	M	35	32.800	105.147	2	15	04/24/78	16	25.0		C			
494439	M	35	32.813	105.153	2	15	04/24/78	17	25.0		C			

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CANT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
494367	1	5	2	7	1	7			4	1		<2	2.50	28
494368	1	3	2	7	3	7			4	1		<2	3.66	33
494369	1	4	2	7	3	7			3	1		<2	4.24	34
494370	1	4	2	7	4	3			3	1		<2	3.29	30
494371	1	9	2	7	5	6			2	1		<2	3.85	37
494373	1	1	2	7	5	6	2	1	3	2		<2	4.09	38
494374	1	12	2	7	6	8	4	1	2	2		<2	2.72	33
494375	1	3	2	7	5	6	4	1	2	2		<2	2.48	29
494376	1	10	2	7	5	8			2	2		<2	5.84	30
494377	1	9	2	7	5	6			2	2		<2	4.88	27
494378	1	9	2	7	5	6			2	2		<2	5.62	34
494379	1	14	2	7	6	8	4	1	2	2		<2	4.23	32
494380	1	14	2	7	5	6	3	1	2	2		<2	5.00	29
494381	1	19	2	7	5	8			2	2		<2	5.70	30
494382	1	15	2	7	5	8			3	2		<2	4.97	36
494383	1	8	2	7	6	8	2	1	2	2		<2	4.14	37
494384	1	7	2	7	5	6			2	2		<2	3.98	37
494385	1	10	2	7	5	3			2	2		<2	3.59	36
494386	1	4	2	7	6	8	2	1	3	2		<2	4.40	39
494387	1	14	2	7	5	6			2	3		<2	3.93	37
494388	1	1	4	4	5	6	3	1	2	3		<2	2.09	28
494389	1	4	2	7	5	6			3	3		<2	4.21	34
494390	1	4	2	7	2	7	5	1	3	3		2	3.77	27
494391	1	20	2	7	4	3			2	3		<2	3.33	34
494392	1	7	2	7	5	6			2	3		<2	4.36	38
494394	1	7	2	7	4	3			2	1		<2	3.05	35
494395	1	7	2	7	4	3			2	1		<2	3.61	36
494396	1	8	2	7	4	3			2	1		<2	3.82	30
494397	1	7	2	7	4	3			2	1		<2	3.73	55
494398	1	3	2	7	3	7			2	1		<2	2.95	39
494399	1	6	2	7	2	7			2	1		<2	3.93	48
494400	1	11	2	7	5	3			2	1		<2	3.05	33
494403	3	16	1	6	4	6			2	1		<2	5.53	32
494405	3	8	1	6	4	6			2	1		<2	5.30	21
494406	3	4	1	6	1	7			2	1		<2	5.10	25
494408	3	3	1	6	2	7			2	2		<2	4.83	23
494409	3	5	1	6	2	7			2	2		<2	5.59	22
494410	3	5	1	6	7	6			2	2		<2	4.38	23
494411	3	7	1	6	2	7			2	2		<2	4.98	23
494414	3	6	1	6	4	6			2	2		<2	5.09	30
494417	3	5	1	6	4	6			2	1		<2	4.77	21
494418	3	9	1	6	4	6			2	1		<2	4.02	15
494421	3	17	1	6	4	6			2	1		<2	5.41	17
494423	3	4	1	6	2	7			2	1		<2	6.25	21
494424	3	10	1	6	4	4			2	1		<2	8.64	30
494425	3	3	1	6	4	6			2	1		<2	5.30	26
494426	3	8	1	6	4	6			2	1		<2	4.67	13
494427	3	4	1	6	2	7			2	2		<2	4.61	18
494428	3	4	1	6	2	7			2	2		<2	3.86	22
494430	3	8	1	6	7	6			2	2		<2	5.64	27
494434	3	6	1	6	2	7			2	1		<2	4.93	18
494435	3	9	1	6	4	6			2	1		<2	4.71	20
494437	3	4	1	6	4	6			2	2		<2	4.93	19
494438	3	11	1	6	2	7			2	2		<2	4.82	11
494439	3	5	1	6	4	6			2	2		<2	4.81	14

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
494367	265	1	13.69	20	<4	18	10	1.12	<15	0.94	12	18	2.68	219	<4
494369	352	1	10.79	32	5	26	10	1.72	<15	1.01	16	22	1.28	313	<4
494369	324	1	10.16	38	6	36	11	1.95	<15	1.12	17	24	1.59	382	<4
494370	263	1	11.52	31	6	28	11	2.10	<15	0.71	13	18	1.40	366	<4
494371	330	1	8.07	31	6	30	14	1.95	<15	1.12	14	22	0.70	344	<4
494373	366	1	8.88	32	6	31	15	1.73	<15	1.17	16	22	0.80	299	<4
494374	284	1	4.91	24	<4	16	8	0.84	<15	1.23	10	20	0.30	116	<4
494375	275	1	11.67	14	<4	14	7	0.72	<15	1.04	6	17	0.41	126	<4
494376	511	2	0.71	42	6	47	18	2.20	<15	1.04	21	33	0.37	488	<4
494377	494	1	0.71	42	5	37	14	1.89	<15	1.63	22	24	0.28	378	<4
494378	509	2	0.76	68	7	53	17	2.61	21	1.64	33	29	0.39	513	6
494379	425	1	5.66	37	4	34	14	1.59	<15	1.27	18	21	0.29	232	<4
494380	475	2	2.25	47	5	40	15	1.97	<15	1.59	24	26	0.33	320	<4
494381	504	2	1.83	47	5	44	19	2.05	<15	1.75	22	32	0.40	483	<4
494382	415	2	5.22	48	6	44	19	1.92	<15	1.40	22	28	0.38	444	<4
494383	413	1	7.56	41	6	30	26	1.88	<15	1.43	18	27	0.71	523	<4
494384	361	1	1.48	35	4	24	12	1.29	<15	1.57	15	27	0.34	271	<4
494385	350	1	4.06	33	5	28	11	1.71	21	1.34	16	24	0.59	263	<4
494386	377	1	4.14	36	6	32	13	1.98	<15	1.55	17	34	0.77	214	<4
494387	372	1	3.65	33	6	29	12	1.76	<15	1.45	15	25	0.46	290	<4
494388	214	1	21.72	18	<4	15	8	0.77	<15	0.60	5	13	0.31	141	<4
494389	417	1	2.49	33	5	26	11	1.43	<15	1.71	15	28	0.37	299	<4
494390	453	1	0.72	49	5	22	9	1.72	<15	1.57	23	18	0.22	302	<4
494391	370	1	4.09	31	4	22	9	1.14	<15	1.48	14	21	0.32	203	<4
494392	399	1	4.01	34	5	29	14	1.79	<15	1.56	17	26	0.58	298	<4
494394	301	1	8.86	29	4	19	9	1.11	<15	1.06	12	20	0.95	214	<4
494395	432	1	8.30	34	5	26	12	1.54	<15	1.21	15	20	0.79	252	<4
494396	481	1	4.49	43	8	26	13	2.16	<15	1.42	19	18	0.41	291	<4
494397	362	1	9.84	20	5	25	13	1.47	<15	1.16	11	28	1.69	230	<4
494398	242	1	15.95	26	5	26	10	1.41	<15	0.91	14	16	2.16	264	<4
494399	320	1	10.47	30	6	28	16	1.66	<15	1.25	14	29	1.70	271	<4
494400	321	1	9.22	33	4	21	9	1.16	<15	1.03	14	19	0.98	217	<4
494403	475	2	2.43	51	5	38	17	2.20	<15	1.64	24	25	0.96	420	<4
494405	443	1	2.45	54	7	37	19	2.27	<15	1.64	27	31	1.42	453	<4
494406	426	1	3.57	51	7	39	16	2.25	<15	1.46	26	27	0.98	462	<4
494408	420	1	4.71	54	7	40	15	2.22	<15	1.59	28	26	0.94	490	<4
494409	427	1	3.31	60	8	45	17	2.45	<15	1.56	30	31	1.04	505	<4
494410	329	1	13.29	49	6	32	15	1.94	<15	0.99	22	41	1.19	341	<4
494411	358	1	6.28	51	8	36	18	2.15	<15	1.35	25	27	0.94	429	<4
494414	348	1	9.37	41	6	41	16	2.18	<15	1.38	31	37	1.01	420	<4
494417	467	1	4.85	48	6	35	15	2.03	<15	1.42	23	24	1.44	423	<4
494418	364	1	8.37	39	5	28	11	1.71	<15	1.17	20	21	1.59	315	<4
494421	439	1	2.25	56	7	37	19	2.23	<15	1.71	27	32	1.31	450	<4
494423	462	2	1.72	59	8	43	18	2.63	17	1.75	29	26	1.01	500	<4
494424	620	2	5.01	90	12	64	22	3.90	<15	2.41	44	41	1.03	799	<4
494425	445	1	3.49	57	7	41	15	2.31	<15	1.53	26	27	0.91	452	<4
494426	426	1	4.91	47	6	31	13	1.86	<15	1.40	23	24	0.75	387	<4
494427	470	1	5.64	39	6	30	14	1.86	<15	1.61	20	28	1.05	375	<4
494428	356	1	9.27	37	5	30	13	1.66	<15	1.21	19	22	0.97	369	<4
494430	449	1	3.60	56	7	44	18	2.43	<15	1.46	29	28	1.52	465	<4
494434	470	1	3.28	43	5	32	13	1.93	<15	1.64	24	30	0.98	363	<4
494435	457	1	2.28	56	6	33	13	2.03	<15	1.60	26	26	0.89	404	<4
494437	456	1	2.63	50	6	33	14	2.07	<15	1.50	25	26	0.84	384	<4
494438	442	1	2.77	50	7	33	14	2.06	<15	1.56	25	27	0.92	397	<4
494439	363	1	1.53	55	7	30	14	1.90	<15	1.51	26	26	0.70	370	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZA	ZR
494367	C.46	9	8	318	<10	3	530	10	1515	30	11	26	42
494368	0.61	10	12	443	<10	4	308	5	1962	43	13	46	52
494369	C.88	8	19	416	14	5	329	5	2461	59	14	57	60
494370	0.49	9	17	407	11	4	236	7	3339	56	13	43	70
494371	0.67	8	20	721	<10	4	250	2	2745	53	12	45	63
494373	C.69	8	17	457	24	4	292	2	2246	55	11	46	55
494374	C.33	6	7	207	13	2	109	<2	1434	27	6	22	52
494375	C.30	6	6	193	<10	2	147	<2	1150	23	5	23	39
494376	0.80	7	27	909	<10	5	842	<2	2938	65	14	100	79
494377	0.86	8	16	591	22	4	560	4	3000	59	12	75	76
494378	C.81	12	30	664	36	5	710	14	3958	82	16	85	102
494379	C.68	9	17	748	21	4	584	9	2347	48	11	64	59
494380	0.79	10	22	765	18	4	785	5	2825	60	13	73	70
494381	C.78	9	24	1061	16	5	666	5	2568	61	14	88	70
494382	C.53	11	22	1000	26	5	550	6	2122	53	13	86	62
494383	C.64	10	19	819	356	4	317	4	2408	53	11	145	60
494384	C.45	5	13	350	11	3	149	7	1977	41	9	36	67
494385	C.39	8	16	236	17	3	115	3	2635	52	8	34	65
494386	0.62	8	15	358	22	4	169	6	3053	61	9	41	70
494387	0.48	7	14	388	23	3	130	7	2600	55	9	41	61
494388	0.22	9	9	276	<10	2	221	11	987	23	5	37	31
494389	C.61	7	14	285	<10	3	182	4	2188	44	9	41	60
494390	C.65	11	5	145	11	3	131	5	3603	54	10	31	75
494391	0.47	7	11	248	13	3	158	2	1945	37	8	28	63
494392	C.61	7	16	623	12	4	206	3	2840	55	9	44	67
494394	0.52	7	13	204	15	3	153	9	1570	33	8	24	54
494395	C.53	6	16	325	15	4	198	5	2276	45	10	36	63
494396	0.59	9	18	249	17	4	172	8	3197	61	10	45	62
494397	0.42	6	13	309	<10	4	204	<2	1833	44	9	33	63
494398	C.31	11	14	367	14	4	265	4	1708	46	12	32	45
494399	C.40	8	18	296	15	4	221	3	1991	50	9	35	58
494400	0.51	8	12	221	12	3	164	9	1791	36	9	24	61
494403	0.63	10	17	550	19	5	210	7	3011	62	13	58	81
494405	C.71	12	16	704	22	6	182	7	2764	55	15	74	76
494406	0.58	11	17	637	15	6	224	11	2704	57	15	68	75
494408	0.62	12	19	618	11	5	233	12	3020	59	16	62	79
494409	0.58	10	19	683	14	6	257	14	2766	62	17	71	79
494410	0.28	14	16	456	11	5	186	11	2074	53	14	53	65
494411	C.50	12	16	546	<10	6	180	12	2571	53	15	61	74
494414	C.42	12	19	702	14	6	516	5	2264	54	15	71	69
494417	0.58	11	15	607	13	5	186	10	2463	49	14	67	72
494418	0.54	12	11	375	12	4	166	10	2399	44	13	48	74
494421	0.68	11	15	759	17	6	163	7	2609	53	15	77	73
494423	0.63	12	20	468	19	7	156	6	2832	62	18	73	85
494424	C.97	21	26	736	14	9	373	14	5359	100	26	100	135
494425	0.59	11	17	557	16	6	220	15	2844	56	16	66	79
494426	0.62	10	12	412	15	5	208	7	2284	47	14	54	68
494427	0.65	11	12	520	<10	5	218	2	2420	45	13	58	69
494428	C.48	11	16	612	<10	4	259	14	2258	45	12	46	67
494430	0.56	12	18	702	18	7	221	7	2753	57	17	82	82
494434	C.68	10	13	456	12	5	137	8	2601	49	14	55	72
494435	0.69	13	17	411	<10	5	154	<2	2970	52	14	56	76
494437	0.63	12	14	366	<10	5	155	6	2674	52	14	55	76
494438	0.63	11	15	509	13	5	147	9	2682	52	14	55	72
494439	0.65	10	15	444	23	5	131	15	2535	48	14	56	68

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEM	COMM	NEAS	PH	CT-F
494441	M	35	32.763	105.230	2	15	04/24/78	17	25.0					
494442	M	35	32.755	105.198	2	15	04/24/78	13	23.0					
494446	M	35	32.872	105.001	2	15	04/25/78	11	26.0					
494448	M	35	32.896	105.003	2	15	04/25/78	11	24.0					
494450	M	35	32.870	105.051	2	15	04/25/78	12	23.0					
494451	M	35	32.850	105.616	2	12	04/24/78	14	22.0	13.4			7.6	390
494452	O	35	32.839	105.692	2	99	04/24/78	19	24.0		C			
494453	M	35	32.841	105.710	2	15	04/24/78	11	25.0					
494454	M	35	32.837	105.712	2	12	04/24/78	11	25.0	16.4			7.7	360
494455	M	35	32.829	105.741	2	11	04/24/78	11	26.0	8.1	C		7.4	470
494456	M	35	32.847	105.614	2	15	04/24/78	12	25.0					
494457	M	35	32.801	105.731	2	12	04/24/78	13	26.0	18.6			7.8	370
494458	M	35	32.806	105.732	2	11	04/24/78	13	26.0	8.9	C		7.6	470
494459	M	35	32.826	105.657	2	11	04/24/78	14	26.0	12.9			7.8	390
494461	M	35	32.796	105.696	2	11	04/24/78	15	25.0	10.0	C		7.3	575
494462	M	35	32.795	105.699	2	12	04/24/78	16	24.0	16.8			7.4	340
494463	M	35	32.807	105.660	2	11	04/24/78	16	24.0	11.2			7.5	485
494464	M	35	32.766	105.653	2	11	04/24/78	17	24.0	9.9			7.4	500
494465	M	35	32.751	105.669	2	11	04/24/78	17	22.0	6.9			7.4	525
494466	M	35	32.780	105.625	2	15	04/24/78	18	21.0					
494468	M	35	32.772	105.626	2	15	04/24/78	18	21.0					
494469	M	35	32.774	105.698	2	11	04/24/78	18	20.0	7.2	C		7.4	500
494471	M	35	32.789	105.654	2	11	04/24/78	19	19.0	10.6			7.6	430
494472	M	35	32.784	105.626	2	15	04/24/78	19	19.0					
494473	M	35	32.739	105.570	2	15	04/25/78	10	23.0					
494474	M	35	32.738	105.587	2	11	04/25/78	10	24.0	12.8	C		7.3	500
494475	M	35	32.740	105.597	2	11	04/25/78	11	24.0	11.9	C		7.3	525
494476	M	35	32.732	105.613	2	11	04/25/78	11	24.0	14.2	C		7.5	525
494477	M	35	32.733	105.610	2	12	04/25/78	11	25.0	21.3	C		7.7	430
494478	M	35	32.722	105.529	2	15	04/25/78	12	25.0					
494479	M	35	32.717	105.528	2	15	04/25/78	12	25.0					
494480	M	35	32.705	105.588	2	15	04/25/78	13	25.0		C			
494481	M	35	32.669	105.607	2	15	04/25/78	13	25.0					
494483	M	35	32.680	105.549	2	15	04/25/78	14	26.0					
494485	M	35	32.674	105.514	2	15	04/25/78	14	26.0					
494486	M	35	32.652	105.516	2	15	04/25/78	14	26.0					
494487	M	35	32.650	105.518	2	15	04/25/78	15	26.0					
494488	M	35	32.631	105.528	2	15	04/25/78	15	26.0					
494489	M	35	32.630	105.529	2	15	04/25/78	16	26.0					
494491	M	35	32.529	105.346	2	15	04/25/78	16	26.0					
494492	M	35	32.591	105.347	2	15	04/25/78	17	25.0					
494493	M	35	32.591	105.345	2	15	04/25/78	17	25.0					
494495	M	35	32.547	105.357	2	15	04/25/78	18	24.0					
494496	M	35	32.523	105.328	2	15	04/25/78	18	24.0					
494497	M	35	32.547	105.332	2	15	04/25/78	18	24.0					
494500	M	35	32.581	105.275	2	15	04/26/78	11	26.0					
494606	M	35	32.370	105.326	2	15	04/26/78	15	32.0					
494607	M	35	32.345	105.321	2	15	04/26/78	15	32.0					
494608	M	35	32.330	105.313	2	15	04/26/78	15	32.0		C			
494609	M	35	32.315	105.345	2	15	04/26/78	15	32.0		C			
494611	M	35	32.299	105.347	2	15	04/26/78	16	32.0		C			
494612	M	35	32.296	105.325	2	15	04/26/78	16	32.0		C			
494613	M	35	32.269	105.308	2	15	04/26/78	16	30.0		C			
494614	M	35	32.251	105.284	2	15	04/26/78	17	30.0		C			
494615	M	35	32.272	105.286	2	15	04/26/78	17	30.0		C			

Table 7, Continued.

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CANT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
494441	3	6	1	6	4	4			2	2		<2	4.00	14
494442	3	8	1	6	4	6			2	2		<2	5.41	23
494446	3	12	1	6	4	6			2	2		<2	5.84	23
494448	3	5	1	6	2	7			2	2		<2	5.19	25
494450	3	12	1	6	4	6			2	2		<2	5.72	21
494451	3	12	1	6	5	6	3	4	3	2		<2	3.36	15
494452	3	9	1	1	5	6			3	2		<2	4.40	29
494453	3	11	1	6	2	1			3	2		<2	4.13	18
494454	3	9	1	6	5	6	3	4	3	2		<2	3.23	22
494455	3	6	1	6	5	6	3	1	3	2		<2	3.34	33
494456	3	16	1	6	5	6			3	2		<2	4.27	32
494457	3	11	1	6	5	6	3	1	2	2		<2	3.93	30
494458	1	12	1	1	5	6	3	1	2	2		<2	4.55	20
494459	3	9	1	1	5	6	2	1	2	2		<2	2.66	16
494461	1	9	1	1	5	6	3	1	2	2		<2	2.29	20
494462	3	10	1	6	5	6	3	1	2	2		<2	3.83	21
494463	3	15	1	6	5	6	2	1	3	2		<2	4.72	25
494464	1	9	1	6	5	6	2	1	3	2		<2	3.56	28
494465	3	16	1	6	5	6	2	1	3	2		<2	3.44	19
494466	3	9	1	6	5	6			3	2		<2	4.05	16
494468	3	11	1	6	5	6			3	2		<2	3.51	12
494469	1	9	1	1	5	6	2	1	3	2		<2	3.20	10
494471	3	6	1	6	5	6	3	1	3	2		<2	3.13	23
494472	3	10	1	6	5	6			3	2		<2	3.14	10
494473	3	11	1	1	5	6			2	2		<2	5.32	12
494474	1	9	1	1	5	6	3	1	2	2		<2	4.82	12
494475	1	11	1	1	5	6	3	1	2	2		<2	5.11	17
494476	1	20	1	1	5	6	3	1	2	2		<2	4.01	<10
494477	3	9	1	1	5	6	3	1	2	2		<2	2.94	12
494478	3	16	1	1	5	6			2	2		<2	5.43	17
494479	3	16	1	6	5	6			2	2		<2	5.86	21
494480	3	9	1	1	5	6			2	2		<2	5.28	12
494481	3	20	1	1	5	6			2	2		<2	4.93	22
494483	3	12	1	1	5	6			2	2		<2	5.13	17
494485	3	18	1	1	5	6			2	2		<2	5.50	16
494486	3		1	6	4	6			2	2		<2	4.23	13
494487	3	16	1	1	5	6			2	2		<2	4.66	<10
494488	3	18	1	1	5	6			2	2		<2	5.51	19
494489	3	16	1	6	5	6			2	2		<2	4.84	15
494491	3	9	1	6	5	6			2	2		<2	4.26	12
494492	3	11	1	6	4	6			2	2		<2	5.09	15
494493	3	9	1	6	5	6			2	2		<2	4.69	12
494495	3	6	1	1	4	6			2	2		<2	4.86	12
494496	3	6	1	1	3	1			3	2		<2	4.21	10
494497	3	4	1	1	2	1			3	2		<2	4.52	16
494500	3	13	1	1	5	6			2	1		<2	5.30	12
494606	1	6	2	7	4	1			2	1		<2	3.79	11
494607	1	9	2	7	5	3			2	2		<2	4.17	14
494608	1		2	7	5	1			2	2		<2	4.05	11
494609	1		2	7	3	7			2	2		<2	4.17	16
494611	1		2	7	5	3			2	2		<2	4.29	15
494612	1		2	7	3	7			2	2		<2	4.93	18
494613	1		2	7	5	1			2	2		<2	4.37	14
494614	1		2	7	5	1			2	2		<2	3.78	10
494615	1		2	7	5	3			2	2		<2	4.93	12

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
494441	443	1	4.63	54	6	32	11	1.86	<15	1.37	26	20	0.72	403	<4
494442	463	1	1.33	54	7	32	14	2.23	46	1.70	27	27	0.54	432	<4
494446	480	1	0.96	59	7	37	16	2.50	<15	1.73	29	31	0.80	423	<4
494448	456	1	1.71	52	6	36	15	2.28	<15	1.60	26	27	1.19	429	<4
494450	485	1	1.17	58	8	40	16	2.47	<15	1.66	28	30	0.75	442	<4
494451	329	1	4.57	36	4	24	9	1.20	<15	1.38	17	28	0.62	242	<4
494452	411	1	0.58	42	6	26	13	1.55	<15	1.93	22	35	0.36	402	<4
494453	357	1	3.03	34	5	29	11	1.54	18	1.64	18	39	0.76	320	<4
494454	214	1	3.63	24	4	23	9	1.12	23	1.21	13	27	0.54	222	<4
494455	215	1	4.86	29	4	28	16	1.19	<15	1.25	14	29	0.36	269	<4
494456	264	1	2.90	36	5	30	11	1.56	<15	1.82	19	40	0.68	316	<4
494457	349	1	4.25	45	5	32	12	1.51	<15	1.52	21	36	0.52	320	<4
494458	263	1	1.65	43	5	37	14	1.74	<15	1.76	21	55	0.63	284	<4
494459	279	1	9.98	21	<4	17	9	0.82	<15	1.03	10	23	0.32	133	<4
494461	217	1	20.83	18	<4	23	14	0.81	<15	0.75	7	16	0.39	143	<4
494462	349	1	6.67	30	5	30	13	1.50	<15	1.37	17	32	0.48	426	<4
494463	262	1	6.28	32	6	39	16	1.93	<15	1.49	17	38	0.87	367	<4
494464	247	1	3.76	48	5	28	13	1.24	<15	1.62	20	32	0.39	183	4
494465	253	1	0.77	29	<4	18	8	0.98	<15	1.93	15	35	0.97	129	<4
494466	263	1	2.77	40	5	30	12	1.53	<15	1.65	20	37	0.71	332	<4
494468	268	1	3.76	31	<4	25	9	1.31	<15	1.59	16	30	0.39	301	<4
494469	209	1	11.67	26	<4	30	40	1.08	<15	1.07	12	22	0.43	133	<4
494471	206	1	7.76	28	4	21	10	1.11	<15	1.25	12	25	0.35	275	<4
494472	212	1	3.26	30	<4	21	7	1.11	<15	1.44	15	33	0.84	200	<4
494473	482	1	0.94	46	7	46	13	2.21	<15	1.75	25	35	0.47	537	<4
494474	503	1	1.47	47	7	35	13	1.96	<15	1.62	24	32	0.41	465	<4
494475	413	1	2.05	46	5	49	14	2.11	<15	1.69	24	54	0.68	367	<4
494476	355	1	8.28	45	4	41	13	1.56	<15	1.17	22	27	0.32	215	4
494477	353	1	16.86	26	4	26	9	1.48	<15	0.91	11	24	0.38	547	<4
494478	506	1	0.52	63	9	48	13	2.22	<15	1.76	31	33	0.31	539	<4
494479	525	2	0.73	57	9	50	14	2.33	<15	1.87	30	37	0.34	598	<4
494480	477	2	2.33	59	8	52	14	2.22	<15	1.47	28	31	0.37	582	<4
494481	503	1	0.69	63	8	47	15	2.10	<15	1.64	30	25	0.29	522	<4
494483	487	2	1.44	57	8	46	12	2.14	<15	1.52	29	30	0.36	530	<4
494485	538	2	0.76	55	7	46	14	2.24	<15	1.56	28	33	0.38	512	<4
494486	470	1	0.44	47	5	28	10	1.63	30	1.51	21	22	0.24	328	<4
494487	493	1	0.74	52	6	35	10	1.82	<15	1.62	24	27	0.36	456	<4
494488	510	2	1.08	60	8	47	14	2.27	<15	1.74	29	35	0.43	533	<4
494489	499	1	0.68	51	7	35	12	1.92	<15	1.76	25	31	0.31	490	<4
494491	495	1	3.45	45	5	28	10	2.01	15	1.52	24	20	0.69	363	<4
494492	529	1	3.26	44	7	29	13	2.03	<15	1.60	23	26	0.68	368	<4
494493	507	1	4.19	49	6	29	12	1.99	<15	1.56	24	24	0.59	361	<4
494495	510	1	2.67	46	6	30	11	1.94	<15	1.64	23	22	0.69	376	<4
494496	453	1	6.65	35	5	28	11	1.73	<15	1.34	18	20	0.69	329	<4
494497	466	1	4.80	50	6	33	12	2.03	<15	1.50	25	22	0.99	392	<4
494500	516	1	3.32	58	7	35	14	2.16	<15	1.54	28	24	0.85	406	<4
494606	487	1	3.85	36	4	20	8	1.58	<15	1.34	17	15	0.84	276	<4
494607	503	1	3.59	37	4	20	11	1.44	<15	1.25	17	16	1.04	247	<4
494608	466	1	4.70	31	4	19	11	1.35	<15	1.38	14	18	1.51	228	<4
494609	4E3	1	5.30	42	5	22	12	1.50	85	1.31	18	18	1.63	256	<4
494611	504	1	4.31	41	4	22	12	1.56	60	1.34	19	17	1.17	271	<4
494612	529	1	3.91	53	6	26	15	1.83	27	1.42	22	21	1.03	320	<4
494613	527	1	2.87	31	4	17	12	1.39	<15	1.50	14	18	0.62	238	<4
494614	510	1	2.30	27	<4	16	8	1.17	<15	1.32	13	14	0.55	190	<4
494615	525	1	2.15	44	5	23	13	1.80	18	1.45	20	15	0.78	392	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
494441	0.68	12	13	289	22	4	207	13	3067	52	14	50	83
494442	0.61	11	15	320	20	6	141	6	2666	53	17	61	78
494446	0.64	11	17	572	22	6	157	12	3029	57	17	75	87
494448	0.66	11	15	599	25	6	190	5	2989	53	16	66	84
494450	0.67	12	16	414	13	6	195	5	3042	60	16	68	86
494451	0.60	9	11	401	<10	3	173	2	2063	35	10	36	69
494452	0.87	8	13	534	10	5	154	4	2391	45	12	45	80
494453	0.62	6	15	505	<10	4	174	4	1897	42	11	45	71
494454	0.51	7	10	413	<10	3	211	<2	1620	32	9	44	61
494455	0.48	8	13	723	12	4	129	3	1764	37	11	54	72
494456	0.67	7	13	484	<10	4	201	5	2265	43	12	56	80
494457	0.44	10	15	572	12	4	257	11	1882	42	12	66	69
494458	0.43	8	20	461	17	5	138	11	1858	48	14	56	67
494459	0.47	8	7	330	10	2	165	7	1263	25	7	25	45
494461	0.33	12	8	965	<10	3	266	5	1053	25	7	60	34
494462	0.53	9	15	732	14	4	430	7	1855	41	12	65	60
494463	0.54	9	18	887	10	5	512	<2	2127	49	14	72	63
494464	0.55	7	13	495	23	4	207	29	1729	38	10	48	61
494465	0.55	4	8	379	10	3	91	2	1910	25	8	22	74
494466	0.44	8	15	537	17	4	212	8	1985	42	11	51	65
494468	0.51	8	11	403	14	3	227	<2	1927	34	10	44	63
494469	0.49	10	13	748	11	3	337	2	1484	32	9	74	43
494471	0.36	8	11	458	12	3	196	5	1553	32	9	44	49
494472	0.31	6	9	300	14	3	105	4	1797	29	8	26	69
494473	0.73	9	20	764	<10	6	467	4	2795	61	16	85	75
494474	0.88	10	14	712	18	5	620	4	2887	55	14	64	70
494475	0.57	8	23	913	14	6	386	8	2387	56	16	57	69
494476	0.57	12	18	750	19	4	478	13	1953	44	13	76	57
494477	0.27	12	14	627	<10	3	320	6	1196	34	9	46	41
494478	0.83	12	20	543	15	6	569	5	2910	65	18	64	81
494479	0.89	10	22	723	16	6	621	8	2866	66	20	74	78
494480	0.77	10	23	767	15	6	683	11	2722	63	17	75	73
494481	0.94	11	20	806	20	5	820	10	3076	58	18	66	81
494483	0.78	12	17	493	15	5	415	8	2971	61	16	58	78
494485	0.81	10	19	607	11	6	589	7	2921	62	17	63	81
494486	0.78	10	10	175	10	4	202	12	2728	47	11	36	70
494487	0.84	10	15	300	<10	5	330	5	2600	50	13	44	63
494488	0.84	12	19	483	17	6	444	10	2956	63	17	61	78
494489	0.87	12	15	324	<10	5	333	4	2921	54	15	48	72
494491	0.81	11	10	337	<10	4	171	4	3264	55	14	45	85
494492	0.81	11	15	357	13	5	196	6	2670	50	14	50	73
494493	0.80	11	12	367	15	5	203	6	2851	51	14	45	75
494495	0.82	10	14	425	13	5	205	5	2685	47	13	50	69
494496	0.74	10	12	380	11	4	254	6	2419	43	12	47	65
494497	0.72	12	13	452	13	5	219	11	2903	50	14	53	77
494500	0.76	12	15	425	17	6	229	14	2775	53	15	61	79
494606	0.90	10	5	203	17	3	160	2	2664	40	10	32	57
494607	0.75	9	5	322	18	3	197	5	2045	34	10	41	53
494608	0.84	9	9	314	19	3	204	3	1910	32	9	37	48
494609	0.77	11	11	332	15	3	236	7	2068	36	10	40	54
494611	0.78	9	9	299	20	4	204	13	2172	37	10	43	56
494612	0.79	11	13	381	21	4	206	12	2320	41	12	47	63
494613	0.73	7	9	339	13	3	162	<2	1762	29	9	37	50
494614	0.72	7	7	218	15	3	151	2	1644	26	7	30	43
494615	0.80	9	13	457	14	4	199	3	2221	38	11	45	63

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAE	NTYP	DATE	HOUR	ATEM	WTEM	COMM	MEAS	PH	CT-F
494616	M	35	32.327	105.291	2	15	04/26/78	18	28.0		C			
494617	M	35	32.324	105.256	2	15	04/26/78	18	28.0		C			
494618	M	35	32.321	105.252	2	15	04/26/78	18	28.0		C			
494619	M	35	32.293	105.273	2	15	04/26/78	19	26.0		C			
494620	M	35	32.295	105.274	2	15	04/26/78	18	26.0		C			
494623	M	35	32.230	105.364	2	15	04/27/78	13	30.0					
494624	M	35	32.244	105.371	2	15	04/27/78	13	30.0					
494625	M	35	32.222	105.321	2	15	04/27/78	13	30.0					
494626	M	35	32.221	105.309	2	15	04/27/78	13	30.0					
494627	M	35	32.236	105.294	2	15	04/27/78	14	30.0					
494628	M	35	32.234	105.294	2	15	04/27/78	14	30.0					
494629	M	35	32.224	105.303	2	15	04/27/78	14	30.0					
494630	M	35	32.198	105.296	2	15	04/27/78	14	30.0					
494631	M	35	32.204	105.300	2	15	04/27/78	14	30.0					
494633	M	35	32.144	105.325	2	15	04/27/78	15	30.0					
494634	M	35	32.142	105.342	2	15	04/27/78	15	30.0					
494635	M	35	32.148	105.279	2	15	04/27/78	15	30.0					
494637	M	35	32.095	105.328	2	15	04/27/78	16	30.0					
494638	M	35	32.098	105.329	2	15	04/27/78	16	30.0					
494641	M	35	32.025	105.357	2	15	04/27/78	17	28.0					
494642	M	35	32.007	105.350	2	15	04/27/78	17	28.0					
494644	M	35	32.027	105.301	2	15	04/27/78	17	28.0					
494646	M	35	32.049	105.256	2	15	04/27/78	18	28.0					
494647	M	35	32.066	105.280	2	15	04/27/78	18	26.0					
494648	M	35	32.066	105.288	2	15	04/27/78	18	26.0					
494649	M	35	32.072	105.303	2	15	04/27/78	18	26.0					
494650	M	35	32.085	105.351	2	15	04/27/78	18	26.0					
494652	M	35	32.708	105.183	2	15	04/25/78	11	26.0					
494653	M	35	32.710	105.184	2	15	04/25/78	11	26.0					
494654	M	35	32.715	105.186	2	15	04/25/78	11	26.0					
494655	M	35	32.621	105.086	2	15	04/25/78	11	26.0					
494657	M	35	32.619	105.069	2	15	04/25/78	13	26.0					
494660	M	35	32.498	105.049	2	15	04/26/78	13	28.0					
494662	M	35	32.487	105.090	2	15	04/26/78	14	28.0					
494663	M	35	32.490	105.103	2	15	04/26/78	14	28.0					
494664	M	35	32.455	105.081	2	15	04/26/78	14	28.0					
494665	M	35	32.466	105.039	2	15	04/26/78	15	28.0					
494667	M	35	32.445	105.020	2	15	04/26/78	16	27.0					
494668	M	35	32.434	105.012	2	15	04/26/78	16	27.0					
494669	M	35	32.406	105.037	2	15	04/26/78	16	27.0					
494670	M	35	32.419	105.001	2	15	04/26/78	14	26.0					
494671	M	35	32.332	105.226	2	15	04/27/78	11	25.0					
494672	M	35	32.362	105.242	2	15	04/27/78	12	26.0					
494673	M	35	32.315	105.191	2	15	04/27/78	12	27.0					
494675	M	35	32.347	105.154	2	15	04/27/78	12	28.0					
494677	M	35	32.321	105.109	2	15	04/27/78	13	29.0					
494679	M	35	32.344	105.059	2	15	04/27/78	14	31.0					
494680	M	35	32.344	105.055	2	15	04/27/78	14	29.0					
494681	M	35	32.337	105.054	2	15	04/27/78	14	30.0					
494682	M	35	32.325	105.049	2	15	04/27/78	14	32.0					
494683	M	35	32.341	105.080	2	15	04/27/78	15	32.0					
494684	M	35	32.376	105.083	2	15	04/27/78	15	31.0					
494685	M	35	32.379	105.086	2	15	04/27/78	16	29.0					
494686	M	35	32.364	105.084	2	15	04/27/78	16	29.0					
494687	M	35	32.353	105.084	2	15	04/27/78	16	28.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
494616	1		2	7	5	3			2	3		<2	4.26	16
494617	1		2	7	5	3			2	3		<2	3.53	<10
494618	1		2	7	5	3			2	3		<2	4.98	17
494619	1		2	7	5	3			2	3		<2	4.24	12
494620	1		2	7	5	3			2	3		<2	4.43	14
494623	1	4	2	7	5	3			2	1		<2	4.11	14
494624	1	6	2	7	5	3			2	1		<2	4.35	17
494625	1	4	2	7	5	3			2	1		<2	3.47	11
494626	1	0	2	7	5	3			2	1		<2	3.49	10
494627	1	2	2	7	5	1			2	1		<2	4.20	16
494628	1	5	2	7	5	1			3	1		<2	3.99	14
494629	1	8	2	7	5	3			2	1		<2	3.72	14
494630	1	6	2	7	4	3			2	1		<2	3.25	<10
494631	1	2	2	7	5	3			2	1		<2	3.70	13
494633	1	4	2	7	5	1			2	1		<2	5.10	23
494634	1	9	2	7	5	3			2	1		<2	4.36	15
494635	1	5	2	7	5	3			2	1		<2	4.33	20
494637	1	5	2	7	5	3			2	1		<2	4.78	15
494638	1	5	2	7	5	1			2	1		<2	4.84	17
494641	1	8	2	7	5	1			2	1		<2	4.34	16
494642	1	3	2	7	5	6			2	1		<2	4.77	18
494644	1	10	2	7	5	3			2	1		<2	5.11	19
494646	1	5	2	7	4	7			2	1		<2	4.83	21
494647	1	8	2	7	5	7			2	1		<2	4.26	13
494648	1	6	2	7	5	7			2	1		<2	4.25	17
494649	1	10	2	7	5	3			2	1		<2	4.06	13
494650	1	10	2	7	5	7			1	1		<2	5.26	24
494652	1	17	1	6	5	6			2	1		<2	5.68	25
494653	1	5	1	6	2	1			2	1		<2	5.18	19
494654	1	10	1	6	5	6			2	1		<2	5.34	17
494655	1	10	1	6	5	6			3	2		<2	5.42	18
494657	1	13	1	6	2	1			3	1		<2	5.11	15
494660	1	10	1	6	5	6			3	1		<2	6.02	18
494662	1	10	1	6	5	6			2	1		<2	5.95	17
494663	1	10	1	6	5	6			2	1		<2	6.55	26
494664	1	12	1	6	5	6			2	1		<2	5.72	20
494665	1	11	1	6	5	6			3	1		<2	5.52	20
494667	1	13	1	6	5	6			3	1		<2	6.19	21
494668	1	6	1	6	5	6			3	1		<2	4.82	15
494669	1	3	1	6	2	1			4	1		<2	4.87	18
494670	1	6	1	6	1	1			3	1		<2	4.99	16
494671	1	10	1	6	5	1			2	1		<2	5.32	20
494672	1	6	1	6	5	1			2	1		<2	5.01	18
494673	1	3	1	6	2	1			2	1		<2	4.09	16
494675	1	13	1	6	5	1			2	1		<2	4.82	20
494677	1	15	1	6	5	1			2	1		<2	5.83	29
494679	1	3	1	6	2	1			3	1		<2	2.20	12
494690	1	2	1	6	3	1			3	1		<2	2.60	12
494681	1	6	1	6	3	1			3	1		<2	3.50	16
494682	1	7	1	6	3	1			2	1		<2	3.83	17
494683	1	6	1	6	3	1			2	1		<2	2.74	11
494684	1	3	1	6	3	1			2	1		<2	1.82	21
494685	1	6	1	6	3	1			3	1		<2	1.64	<10
494686	1	1	1	6	3	1			3	1		<2	1.84	14
494687	1	5	1	6	3	1			3	1		<2	2.55	14

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
494616	503	1	4.28	43	5	24	10	1.64	<15	1.23	19	18	1.17	282	<4
494617	459	1	4.08	30	4	16	7	1.09	<15	1.24	14	14	0.93	199	<4
494618	503	1	3.55	41	5	25	15	1.92	<15	1.42	20	21	1.16	361	<4
494619	479	1	4.42	39	5	22	10	1.48	<15	1.30	18	18	1.68	255	<4
494620	476	1	4.46	42	5	24	13	1.65	42	1.36	17	19	1.63	293	<4
494623	567	1	2.51	37	<4	20	10	1.56	<15	1.56	17	16	0.90	268	<4
494624	585	1	3.56	35	4	20	11	1.53	<15	1.55	19	17	0.70	250	<4
494625	527	1	2.63	36	<4	19	8	1.43	<15	1.37	17	13	0.85	230	<4
494626	528	1	3.62	41	4	19	8	1.37	<15	1.32	19	13	1.07	223	<4
494627	530	1	4.60	44	5	23	11	1.55	<15	1.33	20	17	1.50	277	<4
494628	547	1	3.12	34	<4	19	10	1.35	<15	1.55	17	16	1.12	238	<4
494629	501	1	4.77	40	4	21	10	1.50	<15	1.33	18	15	1.72	265	<4
494630	550	1	1.47	38	<4	15	6	1.36	26	1.43	17	12	0.32	228	<4
494631	548	1	4.39	36	4	17	9	1.37	<15	1.37	18	15	0.62	206	<4
494633	598	1	3.61	46	4	23	16	1.90	<15	1.72	23	21	0.69	330	<4
494634	509	1	3.40	28	<4	18	11	1.47	<15	1.57	16	17	0.53	265	<4
494635	554	1	6.75	42	5	22	12	1.67	<15	1.31	20	21	0.74	270	<4
494637	514	1	2.41	40	4	21	13	1.57	<15	1.70	19	18	0.70	273	<4
494638	505	1	2.45	43	5	22	12	1.68	<15	1.77	19	19	0.67	327	<4
494641	559	1	4.51	46	5	23	11	1.77	<15	1.50	22	18	0.55	279	<4
494642	501	1	4.63	41	4	21	13	1.64	<15	1.56	19	21	0.88	317	<4
494644	502	2	3.78	44	5	24	13	1.87	<15	1.64	20	22	1.01	347	<4
494646	572	1	3.47	42	5	24	15	1.91	<15	1.48	20	21	0.96	347	<4
494647	554	1	4.37	29	<4	20	11	1.36	<15	1.46	14	17	1.87	225	<4
494648	543	1	5.28	38	4	25	15	1.61	<15	1.35	17	18	1.96	272	<4
494649	559	1	4.72	33	<4	16	8	1.38	<15	1.33	14	21	0.66	225	<4
494650	561	2	4.64	46	5	25	16	1.95	<15	1.71	21	27	0.91	388	<4
494652	537	2	3.18	53	8	36	17	2.27	<15	1.58	25	23	0.64	432	<4
494653	534	2	2.83	54	6	31	14	2.05	22	1.47	24	21	0.53	404	<4
494654	531	1	2.92	44	6	34	14	2.12	<15	1.55	21	22	0.68	398	<4
494655	491	2	2.62	48	5	43	16	2.25	<15	1.46	22	23	1.70	412	<4
494657	522	1	1.89	49	6	35	14	2.16	<15	1.52	22	22	0.93	400	<4
494660	519	2	0.68	53	7	37	17	2.24	<15	1.76	27	27	0.52	475	<4
494662	575	2	0.58	54	7	34	15	2.29	<15	1.67	27	27	0.55	469	<4
494663	503	2	0.85	57	8	40	17	2.62	<15	1.70	29	31	0.68	499	<4
494664	593	2	0.56	52	7	34	15	2.22	<15	1.57	25	23	0.53	445	<4
494665	563	2	0.63	52	6	38	13	2.25	<15	1.50	26	24	0.49	438	<4
494667	560	2	0.76	55	6	41	16	2.49	<15	1.66	29	27	0.63	449	<4
494668	561	1	1.36	47	5	27	11	1.88	<15	1.44	23	19	0.49	334	<4
494669	526	1	2.53	42	5	31	12	1.92	<15	1.46	23	20	1.09	379	<4
494670	546	2	1.08	59	7	35	12	2.04	<15	1.44	27	20	0.69	381	<4
494671	552	2	4.65	48	7	31	17	2.15	<15	1.51	22	21	1.42	501	<4
494672	552	1	1.53	43	5	26	16	1.90	<15	1.55	21	20	1.20	367	<4
494673	551	1	3.98	37	<4	20	12	1.48	<15	1.43	17	17	1.29	253	<4
494675	530	1	5.10	45	6	28	15	1.73	<15	1.41	21	19	0.89	398	<4
494677	438	2	9.07	51	8	41	21	2.48	<15	1.40	25	25	1.64	531	<4
494679	280	1	13.30	22	<4	21	6	0.89	<15	0.71	5	11	4.06	165	<4
494680	323	1	12.17	20	<4	20	8	0.96	<15	0.84	6	13	3.88	188	<4
494681	425	1	8.25	31	<4	24	11	1.39	<15	1.11	18	16	2.78	262	<4
494682	467	1	7.05	30	<4	22	12	1.42	<15	1.24	15	17	2.33	265	<4
494683	338	1	11.89	21	<4	21	7	1.02	<15	0.85	10	14	3.44	208	<4
494684	194	1	14.83	15	<4	15	7	0.66	21	0.62	5	24	4.20	119	<4
494685	183	<1	15.16	16	<4	15	7	0.61	<15	0.54	6	20	4.02	108	<4
494686	221	<1	14.46	11	<4	14	6	0.71	<15	0.66	4	18	3.83	130	<4
494687	310	1	12.80	27	<4	23	8	1.09	20	0.75	11	16	3.79	193	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZA	ZR
494616	0.71	10	7	335	14	4	205	7	2227	39	11	36	59
494617	0.69	9	7	222	<10	2	158	<2	1606	26	8	26	40
494618	0.69	10	13	543	13	5	195	7	2323	42	12	50	62
494619	0.77	9	10	338	16	3	192	6	1989	35	10	36	54
494620	0.79	9	9	415	14	4	203	2	2193	37	11	42	59
494623	0.88	8	7	243	14	3	169	5	2884	41	9	34	64
494624	0.79	7	9	315	<10	3	200	6	2558	40	10	38	71
494625	0.70	8	9	178	14	3	154	13	2840	40	8	33	66
494626	0.68	9	9	193	20	3	159	10	2502	39	9	30	62
494627	0.68	10	12	418	23	3	185	6	2378	40	10	42	62
494628	0.78	8	10	386	17	3	161	6	2260	35	9	35	61
494629	0.69	11	8	304	19	3	179	5	2630	43	9	36	70
494630	0.70	9	6	145	11	2	121	5	2960	40	8	29	65
494631	0.66	8	10	236	19	3	165	5	2356	38	9	31	59
494633	0.82	11	14	445	21	4	191	3	2820	49	11	48	79
494634	0.83	8	10	292	16	3	193	4	2308	38	9	36	62
494635	0.57	10	13	409	19	4	208	10	2303	47	11	41	68
494637	0.94	10	7	356	21	3	191	5	2453	41	9	42	69
494638	0.88	12	11	420	23	3	177	5	2549	42	10	44	71
494641	0.86	12	8	287	16	3	215	10	3048	49	11	41	89
494642	0.77	10	10	467	15	4	228	8	2297	41	11	45	70
494644	0.90	11	9	524	12	4	228	<2	2766	47	11	49	82
494646	0.72	11	14	566	17	4	252	3	2756	48	12	52	80
494647	0.92	8	10	268	26	3	220	<2	2293	37	9	39	68
494648	0.80	10	12	327	32	3	220	7	2605	44	10	45	73
494649	0.79	7	8	258	23	3	271	2	2203	42	9	31	64
494650	0.79	10	16	742	17	4	247	6	2696	50	12	57	79
494652	0.67	12	19	574	25	5	258	5	3058	60	14	68	84
494653	0.62	10	20	389	36	4	210	6	2914	56	12	56	80
494654	0.66	10	16	448	14	4	201	2	3095	56	12	55	80
494655	0.61	11	13	645	27	5	251	6	2955	59	13	67	79
494657	0.68	9	13	503	15	4	198	3	3219	57	12	58	82
494660	0.85	10	13	528	23	5	268	6	3266	62	16	65	96
494662	0.73	10	14	391	24	5	176	6	3204	59	16	61	94
494663	0.65	11	19	451	21	6	200	9	3270	68	17	71	98
494664	0.71	11	15	446	22	5	214	4	3043	59	15	60	89
494665	0.72	11	16	408	21	5	277	3	3408	62	15	59	94
494667	0.71	10	15	456	20	6	157	7	3543	66	16	67	101
494668	0.67	11	13	201	26	4	128	3	3044	51	12	43	79
494669	0.68	8	14	335	13	4	148	6	2862	50	11	50	72
494670	0.66	10	14	352	30	4	157	12	3101	55	13	53	85
494671	0.67	10	16	734	21	5	229	5	2801	52	13	63	77
494672	0.68	8	12	544	22	4	204	7	2487	47	11	51	67
494673	0.87	9	10	310	22	3	241	7	2560	39	9	42	70
494675	0.67	10	14	491	19	4	270	11	2425	45	12	49	67
494677	0.33	12	20	917	26	6	376	6	2486	58	15	80	74
494679	0.38	9	9	272	11	2	202	5	1488	30	7	28	40
494680	0.47	9	10	320	13	2	215	<2	1454	29	7	31	38
494681	0.59	9	6	402	15	3	246	2	2189	38	9	41	58
494682	0.67	9	10	340	13	3	250	4	2148	38	9	43	58
494683	0.43	9	9	328	16	2	211	<2	1541	30	8	31	42
494684	0.30	8	5	278	15	2	682	4	983	23	5	30	34
494685	0.25	7	6	221	<10	2	854	10	880	22	5	21	31
494686	0.32	5	7	224	<10	1	550	<2	1168	23	5	21	33
494687	0.40	12	8	307	20	2	265	8	1791	36	7	31	50

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOOR	ATEM	WTEN	COMM	MEAS	PH	CT-F
494688	M	35	32.352	105.104	2	15	04/27/78	16	28.0					
494689	M	35	32.368	105.112	2	15	04/27/78	16	29.0					
494690	M	35	32.341	105.085	2	15	04/27/78	17	29.0					
494692	M	35	32.291	105.083	2	15	04/27/78	17	26.0					
494693	M	35	32.278	105.040	2	15	04/27/78	17	26.0					
494694	M	35	32.304	105.032	2	15	04/27/78	18	25.0					
494695	M	35	32.284	105.021	2	15	04/27/78	18	25.0					
494696	M	35	32.257	105.007	2	15	04/27/78	18	23.0					
494698	M	35	32.243	105.010	2	15	04/27/78	18	24.0					
494699	M	35	32.242	105.011	2	15	04/27/78	18	22.0					
494701	M	35	32.064	105.350	2	15	04/27/78	19	25.0					
494702	M	35	32.040	105.374	2	15	04/27/78	19	25.0					
494704	M	35	32.063	105.206	2	15	04/28/78	13	30.0					
494705	M	35	32.104	105.230	2	15	04/28/78	14	30.0					
494706	M	35	32.099	105.219	2	15	04/28/78	14	30.0					
494707	M	35	32.001	105.214	2	15	04/27/78	18	27.0					
494708	M	35	32.102	105.207	2	15	04/28/78	14	30.0					
494709	M	35	32.037	105.216	2	15	04/28/78	14	30.0					
494710	M	35	32.159	105.243	2	15	04/28/78	15	30.0					
494711	M	35	32.155	105.226	2	15	04/28/78	15	30.0					
494713	M	35	32.152	105.220	2	15	04/28/78	16	30.0					
494714	M	35	32.160	105.208	2	15	04/28/78	16	30.0					
494715	M	35	32.173	105.186	2	15	04/28/78	16	30.0					
494716	M	35	32.165	105.176	2	15	04/28/78	16	30.0					
494717	M	35	32.272	105.154	2	15	04/27/78	13	29.0					
494718	M	35	32.253	105.167	2	15	04/28/78	13	29.0					
494719	M	35	32.263	105.197	2	15	04/28/78	14	29.0					
494720	M	35	32.272	105.191	2	15	04/28/78	14	30.0					
494721	M	35	32.282	105.201	2	15	04/28/78	14	30.0					
494722	M	35	32.286	105.208	2	15	04/28/78	14	30.0					
494723	M	35	32.252	105.100	2	15	04/28/78	15	30.0					
494728	M	35	32.198	105.034	2	15	04/28/78	16	30.0					
494729	M	35	32.178	105.024	2	15	04/28/78	16	30.0					
494730	M	35	32.173	105.026	2	15	04/28/78	16	30.0					
494732	M	35	32.154	105.050	2	15	04/28/78	17	30.0					
494734	M	35	32.139	105.054	2	15	04/28/78	17	30.0					
494735	M	35	32.129	105.053	2	15	04/28/78	17	28.0					
494737	M	35	32.300	105.176	2	15	04/28/78	18	26.0					
494738	M	35	32.326	105.228	2	15	04/28/78	19	24.0					
494739	M	35	32.159	105.178	2	15	04/28/78	16	30.0					
494740	M	35	32.147	105.181	2	15	04/28/78	16	30.0					
494741	M	35	32.197	105.202	2	15	04/28/78	17	30.0					
494742	M	35	32.213	105.220	2	15	04/28/78	17	28.0					
494744	M	35	32.222	105.234	2	15	04/28/78	18	28.0					
494745	M	35	32.214	105.231	2	15	04/28/78	18	28.0					
494746	M	35	32.181	105.163	2	15	04/28/78	18	28.0					
494747	M	35	32.183	105.150	2	15	04/28/78	18	26.0					
494748	M	35	32.222	105.156	2	15	04/28/78	18	26.0					
494749	M	35	32.230	105.133	2	15	04/28/78	18	26.0					
494750	M	35	32.246	105.136	2	15	04/28/78	18	26.0					
494751	M	35	32.582	105.275	2	15	04/26/78	11	26.0					
494752	M	35	32.503	105.291	2	15	04/26/78	11	26.0					
494753	M	35	32.585	105.213	2	15	04/26/78	12	28.0					
494755	M	35	32.564	105.212	2	15	04/26/78	12	28.0					
494756	M	35	32.565	105.254	2	15	04/26/78	12	28.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAHT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
494698	1	11	1	6	5	1			2	1		<2	4.22	17
494699	1	10	1	6	5	1			2	1		<2	3.05	16
494690	1	10	1	6	5	1			2	1		<2	2.72	14
494692	1	11	1	6	5	6			2	1		<2	5.62	18
494693	1	8	1	6	5	6			2	1		<2	4.52	17
494694	1	3	1	6	3	1			3	1		<2	4.11	14
494695	1	10	1	6	5	6			2	1		<2	4.45	15
494696	1	1	1	6	5	6			2	1		<2	3.34	12
494698	1	6	1	6	3	1			3	1		<2	3.70	11
494699	1	5	1	6	2	1			3	1		<2	3.43	<10
494701	1	6	2	7	5	3			2	1		<2	5.04	21
494702	1	9	2	7	5	7			2	1		<2	5.13	16
494704	1	10	2	7	5	3			1	1		<2	5.16	24
494705	1	2	2	7	5	7			1	1		<2	4.98	22
494706	1	11	2	7	5	3			2	1		<2	4.71	18
494707	3	13	1	6	3	1			2	2		<2	4.07	18
494708	1	7	2	7	5	3			2	1		<2	4.62	17
494709	1	10	2	7	5	3			2	1		<2	4.24	15
494710	1	10	2	7	4	3			2	1		<2	3.65	10
494711	1	4	2	7	5	3			2	1		<2	3.24	<10
494713	1	10	2	7	5	3			2	1		<2	3.71	<10
494714	1	4	2	7	3	7			3	1		<2	3.71	10
494715	1	5	2	7	5	3			3	1		<2	3.63	<10
494716	1	1	2	7	5	3			3	1		<2	3.48	10
494717	3	16	1	6	4	6			2	1		<2	3.80	11
494718	3	5	1	6	4	6			2	1		<2	3.95	12
494719	3	13	1	6	4	6			2	1		<2	4.54	15
494720	3	7	1	6	4	6			2	1		<2	4.37	12
494721	3	6	1	6	4	1			2	1		<2	4.10	<10
494722	3	11	1	6	4	6			2	1		<2	4.34	11
494723	3	9	1	6	4	1			1	1		<2	4.80	16
494728	3	14	1	6	2	7			1	1		2	3.38	<10
494729	3	6	1	6	4	6			1	2		<2	4.00	13
494730	3	9	1	6	4	6			2	1		<2	3.61	12
494732	3	7	1	6	4	1			1	1		<2	3.53	<10
494734	3	3	1	6	4	6			2	1		<2	3.93	16
494735	3	6	1	6	4	4			2	1		<2	3.80	20
494737	3	5	1	6	4	6			2	1		<2	3.99	12
494738	3	6	1	6	4	6			2	1		4	4.66	26
494739	1	8	2	7	5	3			3	1		<2	4.89	29
494740	1	6	2	7	5	7			2	1		<2	4.02	18
494741	1	8	2	7	5	3			2	1		<2	2.93	14
494742	1	10	2	7	5	7			2	1		<2	4.61	20
494744	1	9	2	7	5	7			2	1		<2	4.73	24
494745	1	10	2	7	5	7			3	1		<2	4.92	23
494746	1	10	2	7	5	3			2	1		<2	2.95	13
494747	1	4	2	7	5	3			3	1		<2	3.96	15
494748	1	10	2	7	5	7			3	1		<2	4.39	16
494749	1	10	2	7	5	7			1	1		<2	4.15	24
494750	1	16	2	7	5	6			2	1		<2	4.87	26
494751	3	16	1	1	5	6			2	1		<2	5.34	15
494752	3	13	1	1	2	1			2	2		<2	4.94	13
494753	3	13	1	1	2	7			2	2		<2	4.41	22
494755	3	11	1	1	3	1			2	2		<2	4.44	13
494756	3	8	1	1	2	1			2	2		<2	5.16	22

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
494688	415	1	9.48	40	5	29	13	1.67	<15	1.19	17	26	2.48	390	<4
494689	236	1	12.24	19	<4	20	10	1.08	<15	1.00	7	29	3.41	216	<4
494690	214	1	13.26	23	<4	20	8	0.86	<15	0.84	9	15	3.94	169	<4
494692	445	2	8.43	51	8	38	19	2.32	<15	1.35	24	25	1.71	474	<4
494693	538	1	6.72	45	5	24	16	1.68	<15	1.46	20	22	1.63	337	<4
494694	504	1	7.08	36	4	22	14	1.51	<15	1.32	16	20	2.18	284	<4
494695	516	1	6.55	35	4	22	13	1.57	<15	1.48	16	23	2.07	316	<4
494696	522	1	2.67	25	<4	15	8	1.06	<15	1.49	12	14	0.74	174	<4
494698	510	1	4.43	23	<4	18	9	1.34	<15	1.40	13	15	1.57	236	<4
494699	485	1	6.79	21	<4	17	8	1.19	<15	1.17	12	14	2.07	211	<4
494701	599	1	2.98	40	5	23	13	1.86	<15	1.71	21	21	0.70	331	<4
494702	599	1	4.79	43	5	23	15	1.85	<15	1.72	21	24	0.66	304	<4
494704	589	2	5.34	47	6	24	16	1.82	<15	1.67	21	23	1.10	413	<4
494705	579	1	4.70	38	5	25	16	1.85	<15	1.59	18	23	1.31	326	<4
494706	571	1	4.10	45	4	24	13	1.75	<15	1.65	20	21	0.94	325	<4
494707	577	1	4.19	39	<4	20	12	1.53	<15	1.38	17	18	0.79	272	<4
494708	592	1	3.19	37	4	21	12	1.58	<15	1.62	18	18	0.97	280	<4
494709	584	1	5.55	34	<4	19	10	1.45	<15	1.50	16	17	0.76	247	<4
494710	567	1	0.33	31	<4	15	6	1.29	<15	1.51	15	13	0.36	212	<4
494711	550	1	0.98	41	<4	16	6	1.44	<15	1.52	19	13	0.35	260	<4
494713	526	1	2.21	36	<4	17	8	1.37	<15	1.67	16	15	0.77	245	<4
494714	519	1	3.28	33	<4	18	8	1.53	<15	1.47	16	15	1.19	267	<4
494715	514	1	3.02	29	<4	17	8	1.25	<15	1.50	14	15	1.20	208	<4
494716	521	1	1.70	46	<4	19	7	1.61	<15	1.52	20	14	0.58	272	<4
494717	507	1	5.03	35	<4	20	10	1.45	<15	1.41	16	16	1.40	252	<4
494718	514	1	5.97	33	<4	20	10	1.31	<15	1.45	14	18	1.78	250	<4
494719	499	1	5.64	43	5	25	14	1.64	<15	1.55	19	20	1.62	321	<4
494720	543	1	4.48	35	4	21	11	1.40	<15	1.60	16	18	1.45	259	<4
494721	509	1	5.86	38	4	22	10	1.45	<15	1.40	16	18	1.60	264	<4
494722	542	1	4.19	39	<4	21	11	1.38	<15	1.52	17	17	1.35	267	<4
494723	530	1	5.75	36	5	24	13	1.59	<15	1.56	17	20	1.11	366	<4
494728	448	1	6.10	31	<4	18	10	1.18	<15	1.31	13	15	1.93	214	<4
494729	490	1	6.49	32	<4	21	11	1.38	<15	1.40	16	18	1.54	253	<4
494730	460	1	7.12	29	<4	20	11	1.25	<15	1.24	14	16	2.39	233	<4
494732	450	1	7.25	29	<4	19	9	1.18	<15	1.28	13	17	2.22	222	<4
494734	493	1	5.12	30	<4	20	13	1.35	17	1.47	14	17	1.54	253	<4
494735	425	1	9.96	27	4	24	12	1.42	<15	1.44	15	26	2.78	289	<4
494737	549	1	4.26	31	<4	20	10	1.39	<15	1.60	18	19	0.94	250	<4
494738	491	1	5.98	63	8	32	17	1.93	<15	1.40	28	23	1.51	388	5
494739	523	1	5.05	45	5	27	18	1.90	<15	1.72	23	27	1.47	393	<4
494740	519	1	4.57	39	4	20	10	1.36	<15	1.52	19	19	1.10	242	<4
494741	499	1	2.22	21	<4	12	5	0.88	<15	1.54	12	15	0.43	159	<4
494742	562	1	4.44	46	5	25	12	1.60	<15	1.53	21	22	1.38	310	<4
494744	548	1	5.01	48	6	29	14	1.90	<15	1.52	25	23	1.40	363	<4
494745	555	1	5.20	43	6	27	16	1.87	<15	1.73	22	26	1.41	387	<4
494746	465	1	5.09	30	<4	17	7	1.14	<15	1.28	15	16	1.35	208	<4
494747	534	1	4.76	37	4	21	11	1.44	<15	1.59	19	15	1.31	268	<4
494748	522	1	5.71	45	5	27	13	1.71	<15	1.53	23	23	1.65	313	<4
494749	526	1	9.03	39	6	25	14	1.66	<15	1.50	19	27	1.61	286	<4
494750	507	1	6.72	44	6	30	16	2.02	<15	1.73	23	28	1.30	371	<4
494751	523	1	3.85	55	8	35	17	2.29	<15	1.63	27	25	0.84	451	<4
494752	542	1	3.29	57	7	35	14	2.09	<15	1.66	28	25	0.69	410	<4
494753	423	1	4.69	45	5	31	21	1.83	<15	1.44	24	24	0.79	385	<4
494755	514	1	5.37	45	5	29	13	1.82	<15	1.63	23	26	0.98	362	<4
494756	531	1	3.93	50	5	32	14	2.10	<15	1.70	24	27	0.93	409	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NR	NI	P	PB	SC	SR	TH	TI	V	Y	2A	2R
494688	0.50	10	16	624	21	4	348	10	2281	45	11	54	62
494689	0.49	4	10	385	<10	2	407	4	1585	32	7	37	48
494690	0.47	8	10	345	11	2	216	5	1228	26	7	30	37
494692	0.37	12	19	852	38	6	472	8	2438	57	14	78	74
494693	0.66	12	12	653	29	4	292	6	2352	45	11	51	69
494694	0.70	9	9	386	24	3	276	7	2314	41	10	46	62
494695	0.71	8	12	494	19	3	262	5	2315	42	10	45	67
494696	0.71	6	5	142	<10	2	156	2	2008	28	7	24	56
494698	0.79	7	5	216	<10	2	172	<2	2499	35	8	33	62
494699	0.64	7	11	226	16	2	197	5	2072	33	8	30	56
494701	0.83	10	16	438	15	4	201	4	2769	47	11	47	80
494702	0.84	12	14	445	14	4	237	6	2650	47	12	47	84
494704	0.75	10	14	794	23	4	266	11	2332	43	12	55	74
494705	0.88	10	12	501	17	4	269	4	2837	48	11	52	83
494706	0.83	10	12	457	21	4	229	8	2702	45	11	45	78
494707	0.78	10	6	371	23	3	298	4	2547	41	10	41	76
494708	0.93	9	10	397	30	3	213	7	2548	41	10	44	77
494709	0.77	9	9	387	17	3	245	5	2238	38	10	38	69
494710	0.75	8	3	163	16	2	127	5	2458	34	8	25	62
494711	0.76	10	5	99	12	2	117	6	3160	41	8	27	66
494713	0.82	9	9	187	18	2	150	5	2650	38	8	31	60
494714	0.77	8	8	187	18	3	179	3	2912	42	9	32	66
494715	0.78	6	7	219	15	2	168	6	2329	35	8	26	61
494716	0.76	10	4	155	22	3	136	4	3373	47	9	25	69
494717	0.74	9	5	268	13	3	219	6	2648	41	9	31	67
494718	0.72	10	9	324	13	3	236	6	2094	38	9	33	59
494719	0.69	11	13	453	27	4	220	8	2315	42	11	41	66
494720	0.83	9	12	343	10	3	212	5	2173	38	9	36	60
494721	0.72	10	10	286	16	3	234	5	2311	40	9	34	58
494722	0.82	8	11	355	19	3	207	9	2222	37	9	35	61
494723	0.75	7	10	476	15	4	464	9	2207	41	11	42	64
494728	0.66	9	7	241	-20	2	190	6	2073	34	8	32	56
494729	0.71	9	9	288	18	3	225	7	2135	38	9	38	61
494730	0.66	9	7	311	21	3	275	10	1976	36	9	33	55
494732	0.63	7	8	282	16	3	215	6	1848	33	9	25	52
494734	0.77	7	9	305	18	3	206	2	2273	36	9	36	64
494735	0.74	10	11	588	<10	4	303	5	1837	34	11	46	58
494737	0.94	9	11	277	<10	3	204	2	2217	34	10	38	59
494738	0.77	17	17	554	17	5	216	4	2518	48	14	55	76
494739	0.90	12	14	943	23	5	254	12	2185	43	13	72	70
494740	0.89	10	12	489	16	3	212	10	1988	32	10	42	64
494741	0.71	6	5	133	12	2	124	<2	1545	21	7	22	39
494742	0.99	11	12	520	15	4	225	12	2194	39	12	47	69
494744	0.84	11	14	560	22	5	228	12	2515	44	14	54	77
494745	0.97	9	14	634	11	5	238	5	2400	42	14	56	74
494746	0.65	8	9	222	<10	3	183	7	1909	30	9	25	55
494747	0.93	9	10	328	<10	3	221	6	2262	36	11	40	66
494748	0.95	12	13	463	<10	4	240	13	2444	42	13	49	74
494749	0.74	12	14	606	11	4	377	8	2165	45	12	47	68
494750	0.73	10	15	662	10	5	271	6	2444	45	14	61	74
494751	0.76	11	20	564	13	5	209	10	2686	52	16	67	80
494752	0.87	12	16	434	18	5	189	8	2940	51	15	56	80
494753	0.77	9	12	399	11	4	224	8	2585	48	14	48	72
494755	0.86	10	11	407	<10	4	207	10	2623	46	14	45	73
494756	0.49	10	15	391	10	5	216	6	2686	50	14	56	77

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	TYPE	STAT	LAT	LONG	LAB	NTYP	DATE	HOUR	ATEM	WTEN	COMM	MEAS	PH	CT-F
494757	M	35	32.542	105.269	2	15	04/26/78	12	28.0					
494758	M	35	32.525	105.258	2	15	04/26/78	13	30.0					
494760	M	35	32.509	105.284	2	15	04/26/78	13	30.0					
494761	M	35	32.547	105.220	2	15	04/26/78	14	30.0					
494764	M	35	32.422	105.361	2	15	04/26/78	14	29.0					
494765	M	35	32.450	105.352	2	15	04/26/78	14	28.0					
494766	M	35	32.405	105.347	2	15	04/26/78	16	28.0					
494767	M	35	32.408	105.343	2	15	04/26/78	17	28.0					
494768	M	35	32.383	105.332	2	15	04/26/78	17	28.0					
494769	M	35	32.384	105.309	2	15	04/26/78	17	28.0					
494771	M	35	32.427	105.251	2	15	04/26/78	17	28.0					
494772	M	35	32.417	105.257	2	15	04/26/78	17	28.0					
494773	M	35	32.458	105.332	2	15	04/26/78	18	27.0					
494774	M	35	32.489	105.320	2	15	04/26/78	18	26.0					
494775	M	35	32.487	105.342	2	15	04/26/78	18	26.0					
494776	M	35	32.483	105.347	2	15	04/26/78	19	25.0					
494780	M	35	32.032	105.113	2	15	04/27/78	13	30.0					
494781	M	35	32.065	105.096	2	15	04/27/78	14	30.0					
494782	M	35	32.083	105.092	2	15	04/27/78	14	30.0					
494785	M	35	32.096	105.017	2	15	04/27/78	14	31.0					
494786	M	35	32.100	105.049	2	15	04/27/78	15	31.0					
494787	M	35	32.109	105.024	2	15	04/27/78	15	31.0					
494788	M	35	32.115	105.111	2	15	04/27/78	15	31.0					
494789	M	35	32.065	105.035	2	15	04/27/78	15	29.0					
494790	M	35	32.059	105.026	2	15	04/27/78	16	29.0					
494791	M	35	32.063	105.020	2	15	04/27/78	16	29.0					
494792	M	35	32.055	105.016	2	15	04/27/78	16	29.0					
494794	M	35	32.039	105.142	2	15	04/27/78	17	28.0					
494795	M	35	32.031	105.141	2	15	04/27/78	17	28.0					
494800	M	35	32.038	105.161	2	15	04/27/78	18	27.0					

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	CAMT	SCIN	RTYP	RCOL	STYP	SCOL	FLOW	WCOL	RELF	SKY	U	AG	AL	B
494757	3	11	1	1	2	1			3	2		<2	4.99	13
494758	3	15	1	6	5	6			3	2		<2	5.32	25
494760	3	17	1	1	2	1			2	2		<2	5.01	24
494761	3	6	1	1	2	1			2	2		<2	4.54	15
494764	3	6	1	6	4	6			2	2		<2	4.35	19
494765	3	11	1	1	5	6			2	2		<2	4.56	15
494766	3	16	1	6	5	6			2	2		<2	5.50	21
494767	3	4	1	1	2	1			2	2		<2	4.41	10
494768	3	10	1	6	5	6			2	2		<2	4.25	16
494769	3	20	1	1	2	1			2	2		<2	5.18	17
494771	3	13	1	6	5	6			3	2		<2	4.58	18
494772	3	16	1	6	5	1			2	2		<2	5.06	17
494773	3	4	1	6	5	6			2	2		<2	4.41	14
494774	3	6	1	1	2	1			2	3		<2	4.16	20
494775	3	9	1	6	5	6			2	4		<2	4.37	22
494776	3	9	1	1	2	1			2	4		<2	4.56	13
494780	3	9	1	6	5	1			2	1		<2	3.98	19
494781	3	9	1	6	5	1			2	1		<2	4.03	24
494782	3	9	1	6	5	1			2	1		<2	3.94	15
494785	3	4	1	6	2	7			2	1		<2	2.94	16
494786	3	6	1	6	2	1			2	1		<2	3.29	<10
494787	3	9	1	6	5	1			2	1		<2	3.22	16
494788	3	15	1	6	5	6			2	1		<2	6.13	21
494789	3	5	1	6	5	6			2	1		<2	3.07	12
494790	3	13	1	6	5	1			2	1		<2	3.58	21
494791	3	9	1	6	2	1			2	2		<2	3.73	18
494792	3	6	1	6	5	6			2	2		<2	3.75	24
494794	3	3	1	6	3	1			2	2		<2	4.13	17
494795	3	3	1	6	5	6			2	2		<2	4.36	21
494800	3	5	1	1	3	1			2	2		<2	3.65	18

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	BA	BE	CA	CE	CO	CR	CU	FE	HF	K	LA	LI	MG	MN	MO
494757	520	1	6.06	43	6	33	14	2.05	<15	1.49	23	27	0.88	419	<4
494758	490	1	6.07	45	6	38	17	2.18	<15	1.58	23	28	1.06	372	<4
494760	511	1	4.03	52	6	34	14	2.09	<15	1.71	25	26	0.96	383	<4
494761	538	1	4.04	49	5	28	12	1.71	<15	1.66	23	21	0.73	313	<4
494764	521	1	5.05	38	4	24	11	1.69	<15	1.66	19	23	1.10	316	<4
494765	561	1	3.87	46	5	26	11	1.94	<15	1.82	24	22	0.60	334	<4
494766	543	1	4.55	58	8	35	17	2.30	<15	1.73	29	29	1.19	461	<4
494767	523	1	4.53	46	6	27	11	1.77	<15	1.63	23	22	0.96	345	<4
494768	576	1	2.20	36	4	20	9	1.39	<15	1.71	19	18	0.62	253	<4
494769	566	1	2.77	49	6	30	14	2.05	<15	1.92	25	26	1.01	394	<4
494771	530	1	5.20	41	5	27	13	1.74	<15	1.67	22	23	1.43	340	<4
494772	544	1	6.00	48	6	30	16	2.01	<15	1.77	24	26	1.23	375	<4
494773	533	1	3.83	49	5	26	11	1.65	<15	1.61	23	21	1.07	320	<4
494774	502	1	5.02	47	5	27	11	1.72	16	1.52	24	21	0.87	330	<4
494775	502	1	5.85	46	5	26	13	1.69	16	1.52	23	22	0.59	265	<4
494776	551	1	2.44	47	5	23	11	1.67	<15	1.73	23	24	0.42	249	<4
494780	487	1	6.38	36	4	22	12	1.50	<15	1.51	18	23	1.76	280	<4
494781	486	1	6.72	39	5	23	13	1.56	<15	1.39	20	23	1.68	298	<4
494782	490	1	8.69	42	4	23	11	1.57	<15	1.39	20	24	1.89	281	<4
494785	383	1	6.26	28	<4	17	7	1.06	<15	1.31	14	20	2.07	208	<4
494786	405	1	4.04	30	<4	16	8	1.02	<15	1.46	13	16	1.35	180	<4
494787	404	1	4.89	35	4	17	9	1.06	<15	1.32	16	16	1.43	205	<4
494788	465	2	6.77	54	9	38	22	2.58	<15	1.43	27	28	1.69	567	<4
494789	395	1	4.22	25	<4	14	8	0.90	34	1.25	10	15	1.40	157	<4
494790	398	1	5.86	31	<4	20	10	1.12	<15	1.41	13	21	2.01	218	<4
494791	453	1	4.72	30	<4	18	10	1.18	<15	1.48	13	18	1.18	225	<4
494792	430	1	7.22	35	4	20	11	1.30	<15	1.22	16	21	1.68	232	<4
494794	491	1	4.41	38	5	24	10	1.48	<15	1.36	18	16	1.12	263	<4
494795	509	1	5.59	44	5	25	12	1.71	<15	1.55	20	21	1.23	291	<4
494800	526	1	6.94	35	4	21	11	1.63	18	1.23	17	15	1.04	273	<4

Table 7, Continued

DATA LISTING FOR SEDIMENTS OF THE CARLSBAD QUADRANGLE

SAMPLE	NA	NB	NI	P	PB	SC	SR	TH	TI	V	Y	ZN	ZR
494757	0.72	10	16	562	12	5	279	3	2422	45	15	62	71
494758	0.74	10	18	658	12	6	294	4	2462	48	15	65	73
494760	0.88	12	15	477	13	5	222	5	2816	50	14	57	79
494761	0.93	11	10	381	16	4	181	6	2459	43	13	46	72
494764	0.99	10	12	375	<10	4	183	<2	2499	41	12	43	65
494765	0.94	11	11	366	<10	4	163	8	2932	47	13	47	76
494766	0.82	13	20	603	16	6	202	11	2745	53	16	63	80
494767	0.89	11	14	402	11	4	196	9	2583	45	13	46	69
494768	0.97	9	8	286	15	3	169	5	2045	33	10	37	58
494769	0.99	10	13	472	17	5	203	10	2698	48	14	55	76
494771	0.94	10	11	458	16	4	218	6	2377	41	12	51	70
494772	0.90	11	17	589	14	5	238	5	2533	46	14	58	77
494773	0.93	10	11	374	15	4	190	6	2297	41	12	45	63
494774	0.90	13	12	347	15	4	200	12	2672	44	12	44	68
494775	0.82	10	13	441	13	4	183	13	2366	43	12	70	67
494776	0.84	9	14	258	13	4	140	17	2219	42	13	41	61
494780	0.90	11	11	457	15	4	293	7	2188	36	12	45	70
494781	0.82	9	11	458	18	4	301	11	2120	38	12	47	66
494782	0.32	11	12	459	<10	4	440	6	2162	42	12	45	68
494785	0.65	7	7	268	<10	2	218	5	1731	27	9	30	58
494736	0.66	6	9	322	15	2	174	7	1624	24	8	30	55
494787	0.56	7	8	312	12	3	188	10	1559	26	9	29	55
494788	0.44	12	18	879	24	6	396	8	2480	50	16	61	75
494789	0.60	7	5	159	17	2	180	3	1480	21	7	22	55
494790	0.63	7	7	277	11	3	215	3	1737	27	9	36	64
494791	0.72	7	7	255	17	3	249	6	1822	27	9	30	60
494792	0.60	11	10	366	16	3	409	4	1937	32	10	36	65
494794	0.75	10	12	272	11	3	181	7	2313	35	11	35	67
494795	0.81	14	8	479	27	4	331	9	2461	40	12	46	76
494800	0.72	11	6	308	15	3	328	7	2731	39	11	40	79

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NOMENCLATURE

EXPLANATION OF CODES USED

SAMPLE = LANL SAMPLE LOCATION NUMBER: A unique six-place designator permanently assigned to every location sampled.

STAT = STATE: A two-digit Federal Information Processing Standards (FIPS) code that designates the state from which each sample came. The code for New Mexico is 35.

LAT, LONG = LATITUDE AND LONGITUDE: Sample location, in degrees and decimal degrees to four places. Although generally much better, locational accuracy cannot be guaranteed closer than approximately 300 m (1,000 ft).

LAB = DOE LABORATORY: A Department of Energy (DOE) one-digit identifier designating the DOE laboratory responsible for taking the samples and field data shown in the listings. LANL is designated by the numeral 2.

NTYP = SAMPLE TYPE: A two-digit identifier which specifically designates the pertinent properties defining the sample type to which the listed data relate. This numerical key provides the necessary tie between the specific type or form of each sample taken and each individual suite of field and laboratory data to which the sample relates. All samples in this report are:

06 - Spring water sample filtered through a 0.45- μ membrane filter and acidified to a pH of <1 with reagent-grade nitric acid (HNO_3).

07 - Stream water sample filtered through a 0.45- μ membrane filter and acidified to a pH of <1 with reagent-grade nitric acid (HNO_3).

08 - Well water sample filtered through a 0.45- μ membrane filter and acidified to a pH of <1 with reagent-grade nitric acid (HNO_3).

10 - Pond water sample filtered through a 0.45- μ membrane filter and acidified to a pH of <1 with reagent-grade nitric acid (HNO_3).

11 - Wet spring sediment dried at $\leq 100^\circ\text{C}$ and sieved to -100 mesh.

12 - Wet stream sediment dried at $\leq 100^\circ\text{C}$ and sieved to -100 mesh.

13 - Wet natural pond sediment dried at $\leq 100^\circ\text{C}$ and sieved to -100 mesh.

14 - Wet artificial pond sediment dried at $\leq 100^\circ\text{C}$ and sieved to -100 mesh.

15 - Dry stream sediment dried at $\leq 100^\circ\text{C}$ and sieved to -100 mesh.

- 27 - Stream water sample acidified to a pH <1 with nitric acid (HNO₃).
- 28 - Lake water sample acidified to a pH <1 with nitric acid (HNO₃).
- 97 - Dry artificial pond sediment dried at $\leq 100^{\circ}\text{C}$ and sieved to -100 mesh.

REP = REPLICATE: A three-digit sequential number assigned to indicate a multiple sample of a single sample type from a single location. The largest number in use indicates the most recent sample taken and there will always be all smaller sequential numbers representing earlier samples back to 0, which is the initial sample from any given location. Except in the case of special studies, there will be no replicate samples and this entry will therefore be a single zero.

DATE = The date the sample was taken, in terms of the number of the month, followed by the day, and finally the year, separated by slashes.

HOURL = The time it was taken on that date to the nearest whole hour on a 24-hour clock.

ATEM = AIR TEMPERATURE: The temperature measured in the shade at the time of sampling, to the nearest whole degree Celsius ($^{\circ}\text{C}$).

WTEM = WATER TEMPERATURE: The temperature measured in the sample water (in situ whenever possible) at the time of sampling, to the nearest one-half of one degree Celsius (0.5°C).

COMM = COMMENTS: A "C" in this column indicates that some secondary comment not included in the listing was recorded at the sample location.

MEAS = SPECIAL MEASUREMENTS: An "S" in this column indicates that one or more field measurements in addition to those listed were made at the sample location.

PH = The pH, to the nearest one-tenth (0.1) of a pH unit, measured in the water at the sample location at the time of sampling.

CT-F = CONDUCTIVITY: The conductivity, in $\mu\text{mhos/cm}$, measured in the water at the sample location at the time of sampling.

SCIN = SCINTILLOMETER: The equivalent uranium (eU), in ppm, as measured on a flat ground surface within 10 m of the sample location using a scintillometer fitted with a differential gamma sampler (DGS). The effect of the DGS is to introduce a fixed geometry into the measurement and remove the background.

RTYP = ROCK TYPE: The single digit in this column provides a general description of the dominant lithologic regime at or near the sample location, as given below.

1 = Sedimentary
2 = Metamorphic

3 = Igneous
4 = Unknown

RCOL = ROCK COLOR: The single digit in this column provides an indication of the observed dominant color of local bedrock exposures at or near the sample location, as given below.

1 = White/Buff	4 = Pink/Red	7 = Gray
2 = Yellow	5 = Green	8 = Black
3 = Orange	6 = Brown	9 = Other

STYP = SEDIMENT TYPE: The single digit in this column provides a subjective evaluation of the dominant sediment type at the sample location, as given below.

1 = Boulders	4 = Sand	7 = Other
2 = Cobbles	5 = Mud	
3 = Gravel	6 = Muck	

SCOL = SEDIMENT COLOR: The single digit in this column indicates the observed dominant color of the bottom sediment (stream channel, lake bed, etc.) at the sample location at the time of sampling as given below.

1 = White/Buff	4 = Pink/Red	7 = Gray
2 = Yellow	5 = Green	8 = Black
3 = Orange	6 = Brown	9 = Other

FLOW = WATER FLOW: The single digit in this column provides a subjective evaluation of the water movement at the sample location at the time of sampling, as given below.

1 = Stagnant	3 = Moderate	5 = Torrent
2 = Slow	4 = Fast	

SLVL = WATER LEVEL: The single digit in this column provides a subjective estimate of water quantity at the time of sampling, relative to the usual condition at the sample location, as given below.

1 = Dry	3 = Normal	5 = Flood
2 = Low	4 = High	

WCOL = WATER COLOR: The single digit in this column provides a subjective evaluation of suspended load in the sample water, as given below.

1 = Clear	3 = Cloudy	5 = Algal
2 = Murky	4 = Muddy	6 = Other

STCH = STREAM CHANNEL: The single digit here gives a subjective evaluation of stream channel character at the sample location at the time of sampling, as given below.

1 = Depositing	2 = Eroding	3 = Unknown
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TVEG = VEGETATION TYPE: The single digit in this column provides a subjective evaluation of the dominant plant type in the vicinity of the sample location, as given below.

1 = Conifers	4 = Grass	7 = Other
2 = Deciduous	5 = Moss	
3 = Brush	6 = Marsh	

DVEG = VEGETATION DENSITY: The single digit in this column provides a subjective estimate of the amount of plant cover in the vicinity of the sample location, as given below.

1 = Barren	3 = Moderate	5 = Very Dense
2 = Sparse	4 = Dense	

REL = RELIEF: The single digit in this column provides a subjective evaluation of the topography within a few hundred meters of the sample location, as given below.

1 = Flat	3 = Gentle (15-60 m)	5 = High (>300 m)
2 = Low (<15 m)	4 = Moderate (60-300 m)	6 = Other

SKY = WEATHER: The single digit in this column gives the observed climatic condition at the sample location at the time of sampling, as given below.

1 = Clear	3 = Overcast	5 = Snowy
2 = Partly Cloudy	4 = Rainy	6 = Other

CAMT = CONTAMINANTS: The single digit here indicates known or suspected local factors likely to influence analytical results, as given below.

1 = None	4 = Industry	7 = Urban
2 = Mining	5 = Sewage	8 = Recreation
3 = Agriculture	6 = Power generation	9 = Other

TWEL = WELL TYPE: If a well water sample, the single digit in this column provides a general description of the type of well from which the sample was taken, as given below.

1 = Windmill-stock	4 = Suction pump	7 = Hand ball
2 = Windmill-domestic	5 = Jet pump	8 = Unknown
3 = Submersible pump	6 = Large turbine	9 = Other

DIAM = WELL DIAMETER: When shown, the one or two digits in this column give the measured or estimated inside diameter, in inches, of the well casing from which the water sample came.

W-DP = WELL DEPTH: When shown, the one, two, or three digits in this column give the total drilled depth from the surface, in feet, of the well from which the sample came. Three 9s in this column indicates a well depth greater than 1,000 ft.

WATD = WATER DEPTH: When shown, the one, two, or three digits in this column give the known depth, in feet, from the surface to the standing water in the well. A -1 in this column indicates a flowing artesian well.

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5. United States Department of Energy, *An Assessment Report on Uranium in the United States of America*, Grand Junction, Colorado, GJO-111(80) (1980).

APPENDIX

MICROFICHE OF FIELD AND LABORATORY DATA

APPENDIX

MICROFICHE OF FIELD AND LABORATORY DATA

CONTENTS

<u>Laboratory Data</u>	<u>Page</u>
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CARLSBAD QUAD
DATA DATA

08/31/81

PAGE 1

- LEGEND
- WELL WATER
 - ◇ SPRING WATER
 - △ NATURAL LAKE OR POND WATER
 - STREAM WATER

PLATE 1
CARLSBAD QUADRANGLE
WATER SAMPLE
LOCATION MAP
LANL SAMPLE NUMBER

SCALE 1: 250000
467 SAMPLES PLOTTED

SYMBOL RANGES FOR PLOTTED VARIABLE (X)		
+	$0.0 \leq X <$	0.50
.	$0.50 \leq X <$	0.85
o	$0.85 \leq X <$	1.10
o	$1.10 \leq X <$	1.50
o	$1.50 \leq X <$	2.50
o	$2.50 \leq X <$	4.25
o	$4.25 \leq X <$	6.80
o	$6.80 \leq X <$	8.75
o	$8.75 \leq X <$	10.90
●	$10.90 \leq X <$	16.50
■	$16.50 \leq X <$	40.00
★	$X \geq$	40.00

PLATE 2
CARLSBAD QUADRANGLE
SYMBOL PLOT
WATER SAMPLE
URANIUM

SCALE 1: 250000
274 SAMPLES PLOTTED

SYMBOL RANGES FOR
PLOTTED VARIABLE (X)

.	$0.0 \leq X < 0.5$
x	$0.5 \leq X < 0.8$
.	$0.8 \leq X < 1.4$
.	$1.4 \leq X < 1.7$
o	$1.7 \leq X < 1.9$
o	$1.9 \leq X < 2.0$
o	$2.0 \leq X < 2.2$
o	$2.2 \leq X < 2.3$
o	$2.3 \leq X < 2.4$
o	$2.4 \leq X < 2.5$
o	$2.5 \leq X < 2.7$
o	$2.7 \leq X < 2.8$
●	$2.8 \leq X < 3.0$
■	$3.0 \leq X < 4.0$
★	$X \geq 4.0$

PLATE 4
CARLSBAD QUADRANGLE
SYMBOL PLOT
SEDIMENT SAMPLE
URANIUM

SCALE 1: 250000
1251 SAMPLES PLOTTED