Concrete Platform - #6 - Initial reading: 34½" 2/8/67

MATILIJA DAM

METER OH-1L

~~.001204~~ .001194 INCHES PER .01% RATIO CHANGE

12

MOVEMENT FROM INITIAL POSITION - INCHES

	00	01	02	03	04	05	06	07	08	09
		.0012	.0024	.0036	.0048	.0060	.0072	.0084	.0096	.0107 ~~.0108~~
.10	.0119 ~~.0120~~	.0131 ~~.0132~~	.0143 ~~.0144~~	.0155 ~~.0157~~	.0167 ~~.0169~~	.0179 ~~.0181~~	.0191 ~~.0193~~	.0203 ~~.0205~~	.0215 ~~.0217~~	.0227 ~~.0229~~
.20	.0239 ~~.0241~~	.0251 ~~.0253~~	.0263 ~~.0265~~	.0275 ~~.0277~~	.0287 ~~.0289~~	.0298 ~~.0301~~	.0310 ~~.0313~~	.0322 ~~.0325~~	.0334 ~~.0337~~	.0346 ~~.0349~~
.30	.0358 ~~.0361~~	.0370 ~~.0373~~	.0382 ~~.0385~~	.0394 ~~.0397~~	.0406 ~~.0409~~	.0418 ~~.0421~~	.0430 ~~.0433~~	.0442 ~~.0445~~	.0454 ~~.0458~~	.0466 ~~.0470~~
.40	.0478 ~~.0482~~	.0490 ~~.0494~~	.0501 ~~.0506~~	.0513 ~~.0518~~	.0525 ~~.0530~~	.0537 ~~.0542~~	.0549 ~~.0554~~	.0561 ~~.0566~~	.0573 ~~.0578~~	.0585 ~~.0590~~
.50	.0597 ~~.0602~~	.0609 ~~.0614~~	.0621 ~~.0626~~	.0633 ~~.0638~~	.0645 ~~.0650~~	.0657 ~~.0662~~	.0669 ~~.0674~~	.0681 ~~.0686~~	.0693 ~~.0698~~	.0704 ~~.0710~~
.60	.0716 ~~.0722~~	.0728 ~~.0734~~	.0740 ~~.0746~~	.0752 ~~.0759~~	.0764 ~~.0771~~	.0776 ~~.0783~~	.0788 ~~.0795~~	.0800 ~~.0807~~	.0812 ~~.0819~~	.0824 ~~.0831~~
.70	.0836 ~~.0843~~	.0848 ~~.0855~~	.0860 ~~.0867~~	.0872 ~~.0879~~	.0884 ~~.0891~~	.0896 ~~.0903~~	.0907 ~~.0915~~	.0919 ~~.0927~~	.0931 ~~.0939~~	.0943 ~~.0951~~
.80	.0955 ~~.0963~~	.0967 ~~.0975~~	.0979 ~~.0987~~	.0991 ~~.0999~~	.1003 ~~.1011~~	.1015 ~~.1023~~	.1027 ~~.1035~~	.1039 ~~.1047~~	.1051 ~~.1060~~	.1063 ~~.1072~~
.90	.1075 ~~.1084~~	.1087 ~~.1096~~	.1098 ~~.1108~~	.1110 ~~.1120~~	.1122 ~~.1132~~	.1134 ~~.1144~~	.1146 ~~.1156~~	.1158 ~~.1168~~	.1170 ~~.1180~~	.1182 ~~.1192~~
1.00	.1194 ~~.1204~~	.1206 ~~.1216~~	.1218 ~~.1228~~	.1230 ~~.1240~~	.1242 ~~.1252~~	.1254 ~~.1264~~	.1266 ~~.1276~~	.1278 ~~.1288~~	.1290 ~~.1300~~	.1301 ~~.1312~~

CHANGE IN RATIO FROM INITIAL READING - %

MATILIJA DAM

METER OH-2L

~~.001085~~ INCHES PER .01% RATIO CHANGE
.001073

2L

MOVEMENT FROM INITIAL POSITION - INCHES

CHANGE IN RATIO FROM INITIAL READING - %

	00	01	02	03	04	05	06	07	08	09
		.0011	.0021 ~~.0022~~	.0032 ~~.0033~~	.0043	.0054	.0064 ~~.0065~~	.0075 ~~.0076~~	.0086 ~~.0087~~	.0097 ~~.0098~~
.10	.0107 ~~.0108~~	.0118 ~~.0119~~	.0129 ~~.0130~~	.0139 ~~.0141~~	.0150 ~~.0152~~	.0161 ~~.0163~~	.0172 ~~.0174~~	.0182 ~~.0184~~	.0193 ~~.0195~~	.0204 ~~.0206~~
.20	.0215 ~~.0217~~	.0225 ~~.0228~~	.0236 ~~.0239~~	.0247 ~~.0250~~	.0258 ~~.0260~~	.0268 ~~.0271~~	.0279 ~~.0282~~	.0290 ~~.0293~~	.0300 ~~.0304~~	.0311 ~~.0315~~
.30	.0322 ~~.0326~~	.0333 ~~.0336~~	.0343 ~~.0347~~	.0354 ~~.0358~~	.0365 ~~.0369~~	.0376 ~~.0380~~	.0386 ~~.0391~~	.0397 ~~.0401~~	.0408 ~~.0412~~	.0418 ~~.0423~~
.40	.0429 ~~.0434~~	.0440 ~~.0445~~	.0451 ~~.0456~~	.0461 ~~.0467~~	.0472 ~~.0477~~	.0483 ~~.0488~~	.0494 ~~.0499~~	.0504 ~~.0510~~	.0515 ~~.0521~~	.0526 ~~.0532~~
.50	.0536 ~~.0542~~	.0547 ~~.0553~~	.0558 ~~.0564~~	.0569 ~~.0575~~	.0579 ~~.0586~~	.0590 ~~.0597~~	.0601 ~~.0608~~	.0612 ~~.0618~~	.0622 ~~.0629~~	.0633 ~~.0640~~
.60	.0644 ~~.0651~~	.0655 ~~.0662~~	.0665 ~~.0673~~	.0676 ~~.0684~~	.0687 ~~.0694~~	.0697 ~~.0705~~	.0708 ~~.0716~~	.0719 ~~.0727~~	.0730 ~~.0738~~	.0740 ~~.0749~~
.70	.0751 ~~.0760~~	.0762 ~~.0770~~	.0773 ~~.0781~~	.0783 ~~.0792~~	.0794 ~~.0803~~	.0805 ~~.0814~~	.0815 ~~.0825~~	.0826 ~~.0835~~	.0837 ~~.0846~~	.0848 ~~.0857~~
.80	.0858 ~~.0868~~	.0869 ~~.0879~~	.0880 ~~.0890~~	.0891 ~~.0901~~	.0901 ~~.0911~~	.0912 ~~.0922~~	.0923 ~~.0933~~	.0934 ~~.0944~~	.0944 ~~.0955~~	.0955 ~~.0966~~
.90	.0966 ~~.0976~~	.0976 ~~.0987~~	.0987 ~~.0998~~	.0998 ~~.1009~~	.1009 ~~.1020~~	.1019 ~~.1031~~	.1030 ~~.1042~~	.1041 ~~.1052~~	.1052 ~~.1063~~	.1062 ~~.1074~~
1.00	.1073 ~~.1085~~	.1084 ~~.1096~~	.1094 ~~.1109~~	.1105 ~~.1118~~	.1116 ~~.1128~~	.1127 ~~.1139~~	.1137 ~~.1150~~	.1148 ~~.1161~~	.1159 ~~.1172~~	.1170 ~~.1183~~

Meter DH-221

~~.001043~~ "/ .01% Ratio Change
.001032

2aL ✓

	0	01	02	03	04	05	06	07	08	09
.0		.0010	.0021	.0031	.0041 ~~.0042~~	.0052	.0062 ~~.0063~~	.0072 ~~.0073~~	.0083	.0093 ~~.0094~~
.1	.0103 ~~.0104~~	.0114 ~~.0115~~	.0124 ~~.0125~~	.0134 ~~.0136~~	.0144 ~~.0146~~	.0155 ~~.0156~~	.0165 ~~.0167~~	.0175 ~~.0177~~	.0186 ~~.0188~~	.0196 ~~.0198~~
.2	.0206 ~~.0209~~	.0217 ~~.0219~~	.0227 ~~.0229~~	.0237 ~~.0240~~	.0248 ~~.0250~~	.0258 ~~.0261~~	.0268 ~~.0271~~	.0279 ~~.0282~~	.0289 ~~.0292~~	.0299 ~~.0302~~
.3	.0310	.0320	.0330	.0341	.0351	.0361	.0372	.0382	.0392	.0402
.4	.0413	.0423	.0433	.0444	.0454	.0464	.0475	.0485	.0495	.0506
.5	.0516	.0526	.0537	.0547	.0557	.0568	.0578	.0588	.0599	.0609
.6	.0619	.0630	.0640	.0650	.0660	.0671	.0681	.0691	.0702	.0712
.7	.0722	.0733	.0743	.0753	.0764	.0774	.0784	.0795	.0805	.0815
.8	.0826	.0836	.0846	.0857	.0867	.0877	.0888	.0898	.0908	.0918
.9	.0929	.0939	.0949	.0960	.0970	.0980	.0991	.1001	.1011	.1022
1.0	.1032	.1042	.1053	.1063	.1073	.1084	.1094	.1104	.1115	.1125

MATILIJA DAM

METER DH - 3L

~~.00153~~ INCHES PER .01% RATIO CHANGE
.001117

31

MOVEMENT FROM INITIAL POSITION - INCHES

CHANGE IN RATIO FROM INITIAL READING - %

	00	01	02	03	04	05	06	07	08	09
		.0011 ~~.0012~~	.0022 ~~.0023~~	.0034 ~~.0035~~	.0045 ~~.0046~~	.0056 ~~.0058~~	.0067 ~~.0069~~	.0078 ~~.0081~~	.0089 ~~.0092~~	.0101 ~~.0104~~
.10	.0112 ~~.0115~~	.0123 ~~.0127~~	.0134 ~~.0138~~	.0145 ~~.0150~~	.0156 ~~.0161~~	.0168 ~~.0173~~	.0179 ~~.0184~~	.0190 ~~.0196~~	.0201 ~~.0208~~	.0212 ~~.0219~~
.20	.0223 ~~.0231~~	.0235 ~~.0242~~	.0246 ~~.0254~~	.0257 ~~.0265~~	.0268 ~~.0277~~	.0279 ~~.0288~~	.0290 ~~.0300~~	.0302 ~~.0311~~	.0313 ~~.0323~~	.0324 ~~.0334~~
.30	.0335 ~~.0346~~	.0346 ~~.0357~~	.0357 ~~.0369~~	.0369 ~~.0380~~	.0380 ~~.0392~~	.0391 ~~.0404~~	.0402 ~~.0415~~	.0413 ~~.0427~~	.0424 ~~.0438~~	.0436 ~~.0450~~
.40	.0447 ~~.0461~~	.0458 ~~.0473~~	.0469 ~~.0484~~	.0480 ~~.0496~~	.0491 ~~.0507~~	.0503 ~~.0519~~	.0514 ~~.0530~~	.0525 ~~.0542~~	.0536 ~~.0553~~	.0547 ~~.0565~~
.50	.0558 ~~.0576~~	.0570 ~~.0588~~	.0581 ~~.0600~~	.0592 ~~.0611~~	.0603 ~~.0623~~	.0614 ~~.0634~~	.0626 ~~.0646~~	.0637 ~~.0657~~	.0648 ~~.0669~~	.0659 ~~.0680~~
.60	.0670 ~~.0692~~	.0681 ~~.0703~~	.0693 ~~.0715~~	.0704 ~~.0726~~	.0715 ~~.0738~~	.0726 ~~.0749~~	.0737 ~~.0761~~	.0748 ~~.0773~~	.0760 ~~.0784~~	.0771 ~~.0796~~
.70	.0782 ~~.0807~~	.0793 ~~.0819~~	.0804 ~~.0830~~	.0815 ~~.0842~~	.0827 ~~.0853~~	.0838 ~~.0865~~	.0849 ~~.0876~~	.0860 ~~.0888~~	.0871 ~~.0899~~	.0882 ~~.0911~~
.80	.0894 ~~.0922~~	.0905 ~~.0934~~	.0916 ~~.0945~~	.0927 ~~.0957~~	.0938 ~~.0969~~	.0949 ~~.0980~~	.0961 ~~.0992~~	.0972 ~~.1003~~	.0983 ~~.1015~~	.0994 ~~.1026~~
.90	.1005 ~~.1038~~	.1016 ~~.1049~~	.1028 ~~.1061~~	.1039 ~~.1072~~	.1050 ~~.1084~~	.1061 ~~.1095~~	.1072 ~~.1107~~	.1083 ~~.1118~~	.1095 ~~.1130~~	.1106 ~~.1141~~
1.00	.1117 ~~.1153~~	.1128 ~~.1165~~	.1139 ~~.1176~~	.1151 ~~.1188~~	.1162 ~~.1199~~	.1173 ~~.1211~~	.1184 ~~.1222~~	.1195 ~~.1234~~	.1206 ~~.1245~~	.1218 ~~.1257~~
1.10	.1229	.1240	.1251	.1262	.1273	.1285	.1296	.1307	.1318	.1329
1.20	.1340	.1352	.1363	.1374	.1385	.1396	.1407	.1419	.1430	.1441
1.30	.1452	.1463	.1474	.1486	.1497	.1508	.1519	.1530	.1541	.1553

MATILIJA DAM

METER DH-1R

~~.00161~~ .001159 INCHES PER .01% RATIO CHANGE

1R

MOVEMENT FROM INITIAL POSITION - INCHES

CHANGE IN RATIO FROM INITIAL READING - %

	00	01	02	03	04	05	06	07	08	09
		.0012	.0023	.0035	.0046	.0058	.0070	.0081	.0093	.0104
.10	.0116	.0127 ~~.0128~~	.0139	.0151	.0162 ~~.0163~~	.0174	.0185 ~~.0186~~	.0197	.0209	.0220 ~~.0221~~
.20	.0232	.0243 ~~.0244~~	.0255	.0267	.0278 ~~.0279~~	.0290	.0301 ~~.0302~~	.0313	.0325	.0336 ~~.0337~~
.30	.0348	.0359 ~~.0360~~	.0371 ~~.0372~~	.0382 ~~.0383~~	.0394 ~~.0395~~	.0406	.0417 ~~.0418~~	.0429 ~~.0430~~	.0440 ~~.0441~~	.0452 ~~.0453~~
.40	.0464	.0475 ~~.0476~~	.0487 ~~.0488~~	.0498 ~~.0499~~	.0510 ~~.0511~~	.0522	.0533 ~~.0534~~	.0545 ~~.0546~~	.0556 ~~.0557~~	.0568 ~~.0569~~
.50	.0580	.0591 ~~.0592~~	.0603 ~~.0604~~	.0614 ~~.0615~~	.0626 ~~.0627~~	.0637 ~~.0639~~	.0649 ~~.0650~~	.0661 ~~.0662~~	.0672 ~~.0673~~	.0684 ~~.0685~~
.60	.0695 ~~.0697~~	.0707 ~~.0708~~	.0719 ~~.0720~~	.0730 ~~.0731~~	.0742 ~~.0743~~	.0753 ~~.0755~~	.0765 ~~.0766~~	.0777 ~~.0778~~	.0788 ~~.0789~~	.0800 ~~.0801~~
.70	.0811 ~~.0813~~	.0823 ~~.0824~~	.0834 ~~.0836~~	.0846 ~~.0848~~	.0858 ~~.0859~~	.0869 ~~.0871~~	.0881 ~~.0882~~	.0892 ~~.0894~~	.0904 ~~.0906~~	.0916 ~~.0917~~
.80	.0927 ~~.0929~~	.0939 ~~.0940~~	.0950 ~~.0952~~	.0962 ~~.0964~~	.0974 ~~.0975~~	.0985 ~~.0987~~	.0997 ~~.0998~~	.1008 ~~.1010~~	.1020 ~~.1022~~	.1032 ~~.1033~~
.90	.1043 ~~.1045~~	.1055 ~~.1057~~	.1066 ~~.1068~~	.1078 ~~.1080~~	.1089 ~~.1091~~	.1101 ~~.1103~~	.1113 ~~.1115~~	.1124 ~~.1126~~	.1136 ~~.1138~~	.1147 ~~.1149~~
1.00	.1159 ~~.1161~~	.1171 ~~.1173~~	.1182 ~~.1184~~	.1194 ~~.1196~~	.1205 ~~.1207~~	.1217 ~~.1219~~	.1229 ~~.1231~~	.1240 ~~.1242~~	.1252 ~~.1254~~	.1263 ~~.1265~~

MATILIJA DAM

METER DH-2R

~~.001157~~ .001147 INCHES PER .01% RATIO CHANGE

2R

MOVEMENT FROM INITIAL POSITION - INCHES

CHANGE IN RATIO FROM INITIAL READING - %

	00	01	02	03	04	05	06	07	08	09
		.0011 ~~.0012~~	.0023	.0034 ~~.0035~~	.0046	.0057 ~~.0058~~	.0069	.0080 .0081	.0092 .0093	.0103 .0104
.10	.0115 ~~.0116~~	.0126 ~~.0127~~	.0138 .0139	.0149 ~~.0150~~	.0161 ~~.0162~~	.0172 ~~.0174~~	.0184 ~~.0185~~	.0195 .0197	.0206 ~~.0208~~	.0218 .0220
.20	.0229 .0231	.0241 .0243	.0252 ~~.0255~~	.0264 ~~.0266~~	.0275 .0278	.0287 .0289	.0298 ~~.0301~~	.0310 ~~.0312~~	.0321 .0324	.0333 ~~.0336~~
.30	.0344 ~~.0347~~	.0356 ~~.0359~~	.0367 ~~.0370~~	.0379 ~~.0382~~	.0390 ~~.0393~~	.0401 ~~.0405~~	.0413 ~~.0417~~	.0424 ~~.0428~~	.0436 ~~.0440~~	.0447 ~~.0451~~
.40	.0459 ~~.0463~~	.0470 ~~.0474~~	.0482 ~~.0486~~	.0493 ~~.0498~~	.0505 ~~.0509~~	.0516 ~~.0521~~	.0528 ~~.0532~~	.0539 ~~.0544~~	.0551 ~~.0555~~	.0562 ~~.0567~~
.50	.0573 ~~.0578~~	.0585 ~~.0590~~	.0596 ~~.0602~~	.0608 ~~.0613~~	.0619 ~~.0625~~	.0631 ~~.0636~~	.0642 ~~.0648~~	.0654 ~~.0659~~	.0665 ~~.0671~~	.0677 ~~.0683~~
.60	.0688 ~~.0694~~	.0700 ~~.0706~~	.0711 ~~.0717~~	.0723 ~~.0729~~	.0734 ~~.0740~~	.0746 ~~.0752~~	.0757 ~~.0764~~	.0768 ~~.0775~~	.0780 ~~.0787~~	.0791 ~~.0798~~
.70	.0803 ~~.0810~~	.0814 ~~.0821~~	.0826 ~~.0833~~	.0837 ~~.0845~~	.0849 ~~.0856~~	.0860 ~~.0868~~	.0872 ~~.0879~~	.0883 ~~.0891~~	.0895 ~~.0902~~	.0906 ~~.0914~~
.80	.0918 ~~.0926~~	.0929 ~~.0937~~	.0941 ~~.0949~~	.0952 ~~.0960~~	.0963 ~~.0972~~	.0975 ~~.0983~~	.0986 ~~.0995~~	.0998 ~~.1007~~	.1009 ~~.1018~~	.1021 ~~.1030~~
.90	.1032 ~~.1041~~	.1044 ~~.1053~~	.1055 ~~.1064~~	.1067 ~~.1076~~	.1078 ~~.1088~~	.1090 ~~.1099~~	.1101 ~~.1111~~	.1113 ~~.1122~~	.1124 ~~.1134~~	.1136 ~~.1145~~
1.00	.1147 ~~.1157~~	.1158 ~~.1169~~	.1170 ~~.1180~~	.1181 ~~.1192~~	.1193 ~~.1203~~	.1204 ~~.1215~~	.1216 ~~.1226~~	.1227 ~~.1238~~	.1239 ~~.1250~~	.1250 ~~.1261~~

MATILIJA DAM

METER OH-2aR

~~.001208~~ INCHES PER .01% RATIO CHANGE
.001194

2AR

MOVEMENT FROM INITIAL POSITION - INCHES

CHANGE IN RATIO FROM INITIAL READING - %

	00	01	02	03	04	05	06	07	08	09
		.0012	.0024	.0036	.0048	.0060	.0072	.0084 ~~.0086~~	.0096 ~~.0099~~	.0107 ~~.0109~~
.10	.0119 ~~.0121~~	.0131 ~~.0133~~	.0143 ~~.0145~~	.0155 ~~.0157~~	.0167 ~~.0169~~	.0179 ~~.0181~~	.0191 ~~.0193~~	.0203 ~~.0205~~	.0215 ~~.0217~~	.0227 ~~.0230~~
.20	.0239 ~~.0242~~	.0251 ~~.0254~~	.0263 ~~.0266~~	.0275 ~~.0278~~	.0287 ~~.0290~~	.0299 ~~.0302~~	.0310 ~~.0314~~	.0322 ~~.0326~~	.0334 ~~.0338~~	.0346 ~~.0350~~
.30	.0358 ~~.0362~~	.0370 ~~.0374~~	.0382 ~~.0387~~	.0394 ~~.0399~~	.0406 ~~.0411~~	.0418 ~~.0423~~	.0430 ~~.0435~~	.0442 ~~.0447~~	.0454 ~~.0459~~	.0466 ~~.0471~~
.40	.0478 ~~.0483~~	.0490 ~~.0495~~	.0501 ~~.0507~~	.0513 ~~.0519~~	.0525 ~~.0532~~	.0537 ~~.0544~~	.0549 ~~.0556~~	.0561 ~~.0568~~	.0573 ~~.0580~~	.0585 ~~.0592~~
.50	.0597 ~~.0604~~	.0609 ~~.0616~~	.0621 ~~.0628~~	.0633 ~~.0640~~	.0645 ~~.0652~~	.0657 ~~.0664~~	.0669 ~~.0676~~	.0681 ~~.0684~~	.0693 ~~.0701~~	.0704 ~~.0713~~
.60	.0716 ~~.0725~~	.0728 ~~.0737~~	.0740 ~~.0749~~	.0752 ~~.0761~~	.0764 ~~.0773~~	.0776 ~~.0785~~	.0788 ~~.0797~~	.0800 ~~.0809~~	.0812 ~~.0821~~	.0824 ~~.0834~~
.70	.0836 ~~.0846~~	.0848 ~~.0858~~	.0860 ~~.0870~~	.0872 ~~.0882~~	.0884 ~~.0894~~	.0896 ~~.0906~~	.0907 ~~.0918~~	.0919 ~~.0930~~	.0931 ~~.0942~~	.0943 ~~.0954~~
.80	.0955 ~~.0966~~	.0967 ~~.0978~~	.0979 ~~.0991~~	.0991 ~~.1003~~	.1003 ~~.1015~~	.1015 ~~.1027~~	.1027 ~~.1039~~	.1039 ~~.1051~~	.1051 ~~.1063~~	.1063 ~~.1075~~
.90	.1075 ~~.1087~~	.1087 ~~.1099~~	.1098 ~~.1111~~	.1110 ~~.1123~~	.1122 ~~.1136~~	.1134 ~~.1148~~	.1146 ~~.1160~~	.1158 ~~.1172~~	.1170 ~~.1184~~	.1182 ~~.1196~~
1.00	.1194 ~~.1208~~	.1206 ~~.1220~~	.1218 ~~.1232~~	.1230 ~~.1244~~	.1242 ~~.1256~~	.1254 ~~.1268~~	.1266 ~~.1280~~	.1278 ~~.1293~~	.1290 ~~.1305~~	.1301 ~~.1317~~

MATILIJA DAM

METER OH-3R

~~.00115~~ .001088 INCHES PER .01% RATIO CHANGE

3R

MOVEMENT FROM INITIAL POSITION - INCHES

	00	01	02	03	04	05	06	07	08	09
		.0011	.0022	.0033	.0044 ~~.0045~~	.0054 ~~.0056~~	.0065 ~~.0067~~	.0076 ~~.0078~~	.0087 ~~.0089~~	.0098 ~~.0100~~
.10	.0109 ~~.0112~~	.0120 ~~.0123~~	.0131 ~~.0134~~	.0141 ~~.0145~~	.0152 ~~.0156~~	.0163 ~~.0167~~	.0174 ~~.0178~~	.0185 ~~.0190~~	.0196 ~~.0201~~	.0207 ~~.0212~~
.20	.0218 ~~.0223~~	.0228 ~~.0234~~	.0239 ~~.0245~~	.0250 ~~.0256~~	.0261 ~~.0268~~	.0272 ~~.0279~~	.0283 ~~.0290~~	.0294 ~~.0301~~	.0305 ~~.0312~~	.0316 ~~.0323~~
.30	.0326 ~~.0334~~	.0337 ~~.0346~~	.0348 ~~.0357~~	.0359 ~~.0368~~	.0370 ~~.0379~~	.0381 ~~.0390~~	.0392 ~~.0401~~	.0403 ~~.0413~~	.0413 ~~.0424~~	.0424 ~~.0435~~
.40	.0435 ~~.0446~~	.0446 ~~.0457~~	.0457 ~~.0468~~	.0468 ~~.0479~~	.0479 ~~.0491~~	.0490 ~~.0502~~	.0500 ~~.0513~~	.0511 ~~.0524~~	.0522 ~~.0535~~	.0533 ~~.0546~~
.50	.0544 ~~.0558~~	.0555 ~~.0569~~	.0566 ~~.0580~~	.0577 ~~.0591~~	.0588 ~~.0602~~	.0598 ~~.0613~~	.0609 ~~.0624~~	.0620 ~~.0636~~	.0631 ~~.0647~~	.0642 ~~.0658~~
.60	.0653 ~~.0669~~	.0664 ~~.0680~~	.0675 ~~.0691~~	.0685 ~~.0702~~	.0696 ~~.0714~~	.0707 ~~.0725~~	.0718 ~~.0736~~	.0729 ~~.0747~~	.0740 ~~.0758~~	.0751 ~~.0769~~
.70	.0762 ~~.0780~~	.0777 ~~.0792~~	.0783 ~~.0803~~	.0794 ~~.0814~~	.0805 ~~.0825~~	.0816 ~~.0836~~	.0827 ~~.0847~~	.0838 ~~.0859~~	.0849 ~~.0870~~	.0860 ~~.0881~~
.80	.0870 ~~.0892~~	.0881 ~~.0903~~	.0892 ~~.0914~~	.0903 ~~.0925~~	.0914 ~~.0937~~	.0925 ~~.0948~~	.0936 ~~.0959~~	.0947 ~~.0970~~	.0957 ~~.0981~~	.0968 ~~.0992~~
.90	.0979 ~~.1004~~	.0990 ~~.1015~~	.1001 ~~.1026~~	.1012 ~~.1037~~	.1023 ~~.1048~~	.1034 ~~.1059~~	.1044 ~~.1070~~	.1055 ~~.1082~~	.1066 ~~.1093~~	.1077 ~~.1104~~
1.00	.1089 ~~.1115~~	.1099 ~~.1126~~	.1110 ~~.1137~~	.1121 ~~.1148~~	.1132 ~~.1160~~	.1142 ~~.1171~~	.1153 ~~.1182~~	.1164 ~~.1193~~	.1175 ~~.1204~~	.1186 ~~.1215~~

CHANGE IN RATIO FROM INITIAL READING - %

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-1L
Meter No. M-8
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 99.96 per cent
Resistance ratio, meter closed: 97.3 per cent
Resistance ratio, meter open: 102.2 per cent
Meter resistance at 0°F, corrected for leads 51.18 ohms
Change in temperature per ohm change in resistance 10.84 °F

1969 Date	Pac Std Time	Temperature F° Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-22	1245A	54°	93°	87°	59.53	8.35	91	99.08	-0.88	-0.1060	1077.86
8-1	8:00A	60°	95°	72°	57.65	6.47	70	99.14	.82	.0987	1060.00
8-14	8:15A	61°	98°	70°	57.45	6.27	68	99.11	.85	.1023	1056.96
9-2	8:15A	54°	102°	80°	58.03	6.85	74	99.08	.88	.1060	1062.27
9-15	8:35A	54°	98°	64°	57.07	5.89	64	99.10	.86	.1035	1064.63
10-1	7:00A	50°	95°	69°	57.63	6.45	70	99.10	-0.86	-0.1035	1067.51

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-2L
Meter No. M-3
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.16 per cent
Resistance ratio, meter closed: 98.6 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.67 ohms
Change in temperature per ohm change in resistance 10.95 °F

1969 Date	Pac Std Time	Temperature °F Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-22	1245P	54°	93°	87°	57.38	7.71	84	101.39	+0.23	+0.0247	
8-1	8:00A	60°	95°	72°	56.84	7.17	79	101.35	.19	.0204	
8-14	8:15A	61°	98°	70°	56.77	7.10	78	101.33	.17	.0182	
9-2	8:15A	54°	102°	80°	57.08	7.41	81	101.37	.21	.0225	
9-15	8:35A	54°	98°	64°	56.48	6.81	75	101.33	.17	.0182	
10-1	7:00A	50°	95°	69°	56.88	7.21	79	101.35	+0.19	+0.0204	

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-2aL
Meter No. M-7
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001032 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.04 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.84 ohms
Change in temperature per ohm change in resistance 10.91 °F

1969 Date	Pac Std Time	Temperature °F Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-22	12:45P	54°	93°	87°	57.39	7.55	82	101.18	+0.14	+0.0144	
8-1	8:00A	60°	95°	72°	57.04	7.20	79	101.10	.06	.0062	
8-14	8:15A	61°	98°	70°	57.01	7.17	78	101.11	.07	.0072	
9-2	8:15A	64°	102°	80°	57.28	7.44	81	101.10	.06	.0062	
9-15	8:35A	54°	98°	64°	56.76	6.97	75	101.13	.09	.0093	
10-1	7:00A	50°	95°	69°	57.30	7.46	81	101.11	+0.07	+0.0072	

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-3L
Meter No. M-2
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001117 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.09 per cent
Resistance ratio, meter closed: 98.1 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 51.69 ohms
Change in temperature per ohm change in resistance 10.95 °F

1969 Date	Pac Std Time	Temperature °F Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-22	12:45P	54	93	87	58.41	6.72	74	101.91	+0.82	+0.0916	
8-1	8:00A	60	95	72	58.53	6.84	75	102.04	.95	.1061	
8-14	8:15A	61	98	70	58.55	6.86	75	102.08	.99	.1106	
9-2	8:15A	54	102	80	58.36	6.67	73	102.10	1.01	.1128	
9-15	8:35A	54	98	64	58.23	6.54	72	102.09	1.00	.1117	
10-1	7:00A	50	95	69	58.06	6.37	70	102.05	+0.96	+0.1072	

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-1R
Meter No. M-6
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001159 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.76 per cent
Resistance ratio, meter closed: 98.0 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 49.76 ohms
Change in temperature per ohm change in resistance 10.88 °F

1969 Date	Pac Std Time	Temperature F° Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-22	12:45P	58°	92°	86°	57.08	7.32	80	100.40	-0.36	-0.0417	1077.86
8-1	8:00A	60°	94°	75°	56.23	6.47	70	100.48	.28	.0325	1060.00
8-14	8:15A	60°	96°	69°	56.12	6.36	69	100.42	.34	.0394	1056.96
9-2	8:15A	55°	98°	80°	56.41	6.65	72	100.37	.39	.0452	1062.27
9-15	8:35A	54°	94°	65°	55.66	5.90	64	100.37	.39	.0452	1064.63
10-1	7:00A	50°	89°	70°	56.02	6.26	68	100.35	-0.41	-0.0475	1067.51

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-2R
Meter No. M-1
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001147 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.82 per cent
Resistance ratio, meter closed: 97.9 per cent
Resistance ratio, meter open: 103.0 per cent
Meter resistance at 0°F, corrected for leads 50.07 ohms
Change in temperature per ohm change in resistance 10.95 °F

1964 Date	Pac Std Time	Temperature F° Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-22	1245P	55°	92°	86°	56.91	6.84	75	100.81	-0.01	-0.0011	
8-1	8:00A	60°	94°	75°	56.29	6.22	68	100.92	+0.10	+0.0115	
8-14	8:15A	60°	96°	67°	56.29	6.22	68	100.95	.13	.0149	
9-2	8:15A	65°	98°	80°	56.56	6.49	71	100.94	.12	.0138	
9-15	8:35A	54°	94°	63°	55.83	6.76	74	100.95	.13	.0149	
10-1	7:00A	50°	89°	70°	56.18	6.11	67	100.93	+0.11	+0.0126	

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-2aR
Meter No. M-5
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.84 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 103.8 per cent
Meter resistance at 0°F, corrected for leads 49.99 ohms
Change in temperature per ohm change in resistance 10.93 °F

1967 Date	Pac Std Time	Temperature F° Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-22	1245P	55°	92°	86°	55.74	5.75	63	101.05	+0.21	+0.0251	
8-1	8:00A	60°	94°	75°	56.05	6.06	67	101.08	.19	.0227	
8-14	8:15A	60°	96°	67°	56.41	6.42	70	101.03	.19	.0227	
9-2	815A	55°	98°	80°	56.28	6.29	69	101.03	.19	.0227	
9-15	8:35A	54°	94°	63°	56.02	6.03	66	101.02	.18	.0215	
10-1	7:00A	50°	89°	70°	56.03	6.04	66	101.03	+0.19	+0.0227	

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-3R
Meter No. M-4
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001088 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.79 per cent
Resistance ratio, meter closed: 98.9 per cent
Resistance ratio, meter open: 104.5 per cent
Meter resistance at 0°F, corrected for leads 50.57 ohms
Change in temperature per ohm change in resistance 10.93 °F

1969 Date	Pac Std Time	Temperature F° Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-22	12:45P	55°	92°	86°	57.54	6.97	76	101.73	−0.06	−0.0065	
8-1	8:00A	60°	94°	75°	57.18	6.61	72	101.77	.02	.0022	
8-14	8:15A	60°	96°	69°	57.18	6.61	72	101.78	−.01	−.0011	
9-2	8:15A	55°	98°	80°	57.33	6.76	74	101.82	+.03	+.0033	
9-15	8:35A	54°	94°	63°	56.76	6.19	68	101.82	.03	.0033	
10-1	7:00A	50°	89°	70°	56.98	6.41	70	101.80	+0.01	+0.0011	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-1L
Meter No. M-8
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 99.96 per cent
Resistance ratio, meter closed: 97.3 per cent
Resistance ratio, meter open: 102.2 per cent
Meter resistance at 0°F, corrected for leads 51.18 ohms
Change in temperature per ohm change in resistance 10.84 °F

1969 Date	Pac Std Time	Temperature F° Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-14	9:30 A	41°	71°	63°	56.27	5.09	55	99.69	-0.27	-0.0322	1072.23
4-17	3:00 P	52°	77°	75°	58.79	7.61	82	99.54	.42	.0501	1062.64
5-1	9:30 A	44°	80°	57°	56.43	5.25	57	99.59	.37	.0442	1055.95
5-13	9:30 A	43°	86°	58°	56.26	5.08	55	99.59	.37	.0442	1056.13
6-3	8:00 A	48	84	58°	56.56	5.38	58	99.42	.54	.0645	1079.90
6-16	9:00 A	50°	73°	60°	56.64	5.46	59	99.45	.51	.0609	1087.93
7-1	9:00 A	54°	91°	83°	57.70	6.52	71	99.26	-0.70	-0.0836	1091.54

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-2L
Meter No. M-3
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.16 per cent
Resistance ratio, meter closed: 98.6 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.67 ohms
Change in temperature per ohm change in resistance 10.95 °F

1969 Date	Pac Std Time	Temperature F° Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-14	9:30A	41°	71°	63°	55.43	5.76	63	101.43	+0.27	+0.0290	1072.23
4-17	3:00P	52°	77°	75°	56.98	7.31	80	101.33	.17	.0182	
5-1	9:30A	44°	80°	57°	55.62	5.95	65	101.42	.26	.0279	
5-15	9:30A	45°	86°	58°	55.60	5.93	65	101.44	.28	.0300	
6-2	8:00A	48°	84°	58°	55.72	6.05	66	101.39	.23	.0247	
6-16	9:00A	50°	73°	60°	55.64	5.97	65	101.44	.28	.0300	
7-1	9:00A	54°	91°	83°	56.48	6.81	75	101.45	+0.29	+0.0311	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2aL
Meter No. M-7
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001032 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.04 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.84 ohms
Change in temperature per ohm change in resistance 10.91 °F

1969 Date	Pac Std Time	Temperature °F Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-14	9:30A	41°	71°	63°	55.58	5.74	63	101.10	+0.06	+0.0062	1072.23
4-17	3:00P	52°	77°	76°	56.86	7.01	76	101.25	.21	.0217	
5-1	9:30A	44°	80°	57°	55.88	6.04	66	101.10	.06	.0062	
5-13	9:30A	43°	86°	58°	55.84	6.00	65	101.10	.06	.0062	
6-3	8:00A	48°	84°	68°	55.93	6.09	66	101.08	.04	.0041	
6-16	9:00A	50°	73°	60°	55.89	6.05	66	101.10	.06	.0062	
7-1	9:00A	54°	91°	83°	56.40	6.56	72	101.11	+0.07	+0.0072	

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-3L
Meter No. M-2
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001117 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.09 per cent
Resistance ratio, meter closed: 98.1 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 51.69 ohms
Change in temperature per ohm change in resistance 10.95 °F

1969 Date	Pac Std Time	Temperature °F Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-14	9:30A	41°	71°	63°	open circuit			open circuit			1072.23
4-17	3:00P	52°	77°	75°	57.20	5.51	60	101.95	+0.86	+0.0961	
5-1	9:30A	44°	80°	57°	57.29	5.60	61	102.05	.96	.1072	
5-13	9:30A	43°	86°	58°	57.16	5.47	60	102.04	.95	.1061	
6-3	8:00A	48°	84°	58	57.65	5.96	65	101.93	.84	.0938	
6-16	9:00A	50°	73°	60°	57.64	5.95	65	101.88	.79	.0882	
7-1	9:00A	54°	91°	83°	57.85	6.16	67	101.85	+0.76	+0.0849	

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-1R
Meter No. M-6
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001159 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.76 per cent
Resistance ratio, meter closed: 98.0 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 49.76 ohms
Change in temperature per ohm change in resistance 10.88 °F

1969 Date	Pac Std Time	Temperature F° Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-14	9:30A	41°	67°	61°	54.93	5.17	56	100.82	+0.06	+0.0070	1072.23
4-17	3:00P	50°	73°	71°	55.66	5.90	64	100.79	.03	.0035	1062.64
5-1	9:30A	44°	77°	57°	55.03	5.27	57	100.82	.06	.0070	1055.96
5-13	9:30A	43°	84°	56°	54.99	5.23	57	100.80	+ .04	+ .0046	1056.13
6-3	8:00A	47°	83	58°	55.24	5.48	59	100.69	− .07	− .0081	1079.90
6-16	9:00A	52°	78°	60°	55.34	5.58	61	100.66	.10	.0116	1087.93
7-1	9:00A	53°	90°	84°	56.48	6.72	73	100.50	−0.26	−0.0301	1091.54

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2R
Meter No. M-1
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001147 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.82 per cent
Resistance ratio, meter closed: 97.9 per cent
Resistance ratio, meter open: 103.0 per cent
Meter resistance at 0°F, corrected for leads 50.07 ohms
Change in temperature per ohm change in resistance 10.95 °F

1969 Date	Pac Std Time	Temperature F° Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-14	9:30A	41°	67°	61°	55.19	5.12	56	100.96	+0.14	+0.0161	107223
4-17	3:00P	50°	73°	71°	55.75	5.68	62	100.96	.14	.0161	
5-1	9:30A	44°	77°	67°	55.23	5.16	56	101.00	.18	.0206	
5-13	9:30A	43°	84°	56°	55.19	5.12	56	100.97	.15	.0172	
6-3	8:00A	49°	83°	58°	55.36	5.29	58	100.93	.11	.0126	
6-16	9:00A	52°	73°	60°	55.46	5.39	59	100.89	.07	.0080	
7-1	9:00A	53°	90°	84°	56.23	6.16	67	100.84	+0.02	+0.0023	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2aR
Meter No. M-5
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.84 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 103.8 per cent
Meter resistance at 0°F, corrected for leads 49.99 ohms
Change in temperature per ohm change in resistance 10.93 °F

1969 Date	Pac Std Time	Temperature °F Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-14	9:30A	41°	67°	61°	55.21	5.22	57	101.05	+0.21	+0.0251	1072.23
4-17	3:00P	50°	78°	71°	55.22	5.23	57	101.05	.21	.0251	
5-1	9:30A	44°	77°	57°	55.28	5.29	58	101.04	.20	.0239	
5-13	9:30A	43°	84°	56°	55.31	5.32	58	101.02	.18	.0215	
6-3	8:00A	49°	83°	68°	55.45	5.46	60	101.03	.19	.0227	
6-16	9:00A	52°	73°	60°	55.48	5.49	60	101.02	.18	.0215	
7-1	9:00A	53°	90°	84°	55.55	5.56	61	101.05	+0.21	+0.0251	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-3R
Meter No. M-4
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001088 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.79 per cent
Resistance ratio, meter closed: 98.9 per cent
Resistance ratio, meter open: 104.5 per cent
Meter resistance at 0°F, corrected for leads 50.57 ohms
Change in temperature per ohm change in resistance 10.93 °F

1969 Date	Pac Std Time	Temperature F° Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-14	9:30A	41°	67°	61°	55.90	5.33	58	101.90	+0.11	+0.0120	1072.23
4-17	3:00P	50°	73°	71°	56.31	5.74	63	101.92	.13	.0141	
5-1	9:30A	44°	77°	57°	56.02	5.45	60	101.93	.14	.0152	
5-13	9:30A	43°	84°	56°	56.04	5.47	60	101.91	.12	.0131	
6-3	8:00A	49°	83°	58°	56.25	5.68	62	101.81	+.02	+.0022	
6-16	9:00A	52°	73°	60°	56.34	5.77	63	101.78	-.01	-.0011	
7-1	9:00A	53°	90°	84°	56.99	6.42	70	101.75	-0.04	-0.0044	

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-1L
Meter No. M-8
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 99.96 per cent
Resistance ratio, meter closed: 97.3 per cent
Resistance ratio, meter open: 102.2 per cent
Meter resistance at 0°F, corrected for leads 51.18 ohms
Change in temperature per ohm change in resistance 10.84 °F

1969 Date	Pac Std Time	Temperature °F Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-15	0900A	39	80	50	55.19	4.01	43	100.05	+0.09	+0.0107	1036.37
1-22	2:45P	44	61	51	56.20	5.02	54	99.83	-.13	-.0155	1095.88
1-27	4:30P	40	58	48	55.84	4.66	51	99.90	.06	.0072	1097.00
2-6	2:30P	34	70	48	55.59	4.41	48	99.92	.04	.0048	1096.73
2-18	10:30A	39	68	47	55.34	4.16	45	99.90	.06	.0072	1094.18
3-4	10:30A	43	83	55	55.93	4.75	51	99.93	.03	.0036	1095.81
3-21	10:30A	35	74	52	55.85	4.67	51	99.76	.20	.0239	1095.46
4-1	9:45A	42	83	60	56.29	5.11	55	99.60	-0.36	-0.0430	1095.12

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-2L
Meter No. M-3
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.16 per cent
Resistance ratio, meter closed: 98.6 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.67 ohms
Change in temperature per ohm change in resistance 10.95 °F

1969 Date	Pac Std Time	Temperature °F Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-15	0900A	39	80	50	54.47	4.80	53	101.47	+0.31	+0.0333	
1-22	2:45P	44	61	51	55.88	6.21	68	101.38	.22	.0236	
1-27	430P	40	58	48	56.11	6.44	71	101.40	.24	.0258	
2-6	230P	34	70	48	56.10	6.43	70	101.40	.24	.0258	
2-18	1630A	39	68	47	56.06	6.39	70	101.39	.23	.0247	
3-4	10.30A	43	63	55	56.10	6.43	70	101.41	.25	.0268	
3-21	10:30A	35	74	52	55.99	6.32	69	101.36	.20	.0215	
4-1	9:45A	42	83	60	55.92	6.25	68	101.37	+0.21	+0.0225	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2aL
Meter No. M-7
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001032 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.04 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.84 ohms
Change in temperature per ohm change in resistance 10.91 °F

1969 Date	Pac Std Time	Temperature °F Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-15	0900A	39	80	50	54.75	4.91	54	101.09	+0.05	+0.0052	
1-22	2.45P	44	61	51	55.58	5.74	63	101.09	.05	.0052	
1-27	4:30P	40	58	48	55.74	5.90	64	101.10	.06	.0062	
2-6	2:30P	34	70	48	55.59	5.75	63	101.14	.10	.0103	
2-18	10:30A	39	68	47	55.58	5.74	63	101.10	.06	.0062	
3-4	10:30A	43	63	55	55.66	5.82	63	101.17	.13	.0134	
3-21	10:30A	35	74	52	55.57	5.73	63	101.10	.06	.0062	
4-1	9:45A	42	83	60	55.80	5.96	65	101.10	+0.06	+0.0062	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-3L
Meter No. M-2
Sheet No.

Calibrations:

Calibration constant, corrected for leads .001117 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.09 per cent
Resistance ratio, meter closed: 98.1 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 51.69 ohms
Change in temperature per ohm change in resistance 10.95 °F

1969 Date	Pac Std Time	Temperature °F Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-15	0900A	39	80	50	56.34	4.65	51	102.28	+ 1.19	+0.1329	
1-22	2:45P	44	61	51	56.48	4.79	52	101.80	+ 0.71	+0.0793	
1-27	4:30P	40	58	48	~~SHORTED~~	OPEN CIRCUIT		~~SHORTED~~	OPEN	CIRCUIT	
2-6	2:30P	34	70	48	"			"			
2-18	10:30A	39	68	47	"			"			
3-4	10:30A	43	63	55	"			"			
3-21	10:30A	35	74	52	"			"			
4-1	9:45A	42	83	60	"			"			

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-1R
Meter No. M-6
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001159 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.76 per cent
Resistance ratio, meter closed: 98.0 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 49.76 ohms
Change in temperature per ohm change in resistance 10.88 °F

1969 Date	Pac Std Time	Temperature °F Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-15	0900A	39	73	48	54.07	4.31	47	100.71	-0.05	-0.0058	1036.37
1-22	2.45P	42	56	51	54.58	4.82	52	100.75	.01	.0012	1095.80
1-27	4.30P	40	57	46	54.16	4.40	48	100.75	-.01	-.0012	1097.00
2-6	2.30P	32	60	46	54.10	4.34	47	100.79	+.03	+0.0035	1096.73
2-18	10.30A	38	59	47	53.99	4.23	46	100.81	.05	.0058	1094.18
3-4	10:30A	36°	56	51	54.04	4.28	47	100.83	.07	.0081	1095.81
3-21	10:30A	35	67	51	54.34	4.58	50	100.80	+0.04	+0.0046	1095.46
4-1	9:45A	42	84	62	54.88	5.12	56	100.76	0	0	1095.12

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-2R
Meter No. M-1
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001147 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.82 per cent
Resistance ratio, meter closed: 97.9 per cent
Resistance ratio, meter open: 103.0 per cent
Meter resistance at 0°F, corrected for leads 50.07 ohms
Change in temperature per ohm change in resistance 10.95 °F

1969 Date	Pac Std Time	Temperature °F Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-15	0900A	39	73	48	54.40	4.33	47	101.11	+0.29	+0.0333	
1-22	2:45P	42	56	51	54.77	4.70	51	100.85	.03	.0034	
1-27	4:30P	40	57	46	54.45	4.38	48	100.85	.03	.0034	
2-6	2:30P	32	60	46	54.29	4.22	46	100.86	.04	.0046	
2-18	10:30A	38	59	47	54.22	4.15	45	100.87	.05	.0057	
3-4	10:30A	36	56	51	54.13	4.06	44	100.90	.08	.0092	
3-21	10:30A	35	67	51	54.49	4.42	48	100.87	.05	.0057	
4-1	9:45A	42	84	62	55.00	4.93	54	100.86	+0.04	+0.0046	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2aR
Meter No. M-5
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.84 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 103.8 per cent
Meter resistance at 0°F, corrected for leads 49.99 ohms
Change in temperature per ohm change in resistance 10.93 °F

1969 Date	Pac Std Time	Temperature °F Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-15	0900A	39	73	48	54.48	4.49	49	101.03	+0.19	+0.0227	
1-22	2:45P	42	56	51	55.33	5.34	58	101.02	.18	.0215	
1-27	4:30P	40	57	46	55.31	5.32	58	101.03	.19	.0227	
2-6	2:30P	32	60	46	55.20	5.21	57	101.04	.20	.0239	
2-18	10:30A	38	59	47	55.19	5.20	57	101.03	.19	.0227	
3-4	10:30A	36	56	51	55.22	5.23	57	101.04	.20	.0239	
3-21	10:30A	35	67	51	55.24	5.25	57	101.02	.18	.0215	
4-1	9:45A	42	84	62	55.31	5.32	58	101.03	+0.19	+0.0227	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-3R
Meter No. M-4
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001088 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.79 per cent
Resistance ratio, meter closed: 98.9 per cent
Resistance ratio, meter open: 104.5 per cent
Meter resistance at 0°F, corrected for leads 50.57 ohms
Change in temperature per ohm change in resistance 10.93 °F

1969 Date	Pac Std Time	Temperature °F Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-15	0900A	39	73	48	55.14	4.57	50	102.08	+0.29	+0.0316	
1-22	2:45P	42	56	51	55.58	5.01	55	101.85	.06	.0065	
1-27	9.30P	40	57	46	55.57	5.00	55	101.84	.05	.0054	
2-6	2.30P	32	60	46	55.26	4.69	51	101.87	.08	.0087	
2-18	10 30A	38	59	47	55.12	4.55	50	101.88	.09	.0098	
3-4	10:30A	36	56	51	55.12	4.55	50	101.88	.09	.0098	
3-21	10:20A	35	67	51	55.29	4.72	52	101.89	.10	.0109	
4-1	9:45A	42	84	62	55.77	5.20	57	101.84	+0.05	+0.0054	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-1L
Meter No. M-8
Sheet No.

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 99.96 per cent
Resistance ratio, meter closed: 97.3 per cent
Resistance ratio, meter open: 102.2 per cent
Meter resistance at 0°F, corrected for leads 51.18 ohms
Change in temperature per ohm change in resistance 10.84 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
10/14	9:30A	48	78	60	56.58	5.40	59	99.58	-0.38	-0.0414	1054.30
11-1	9:00A	48	95	62	55.80	4.62	50	99.57	.39	.0466	1054.33
11-14	10:00A	44	88	60	55.75	4.57	50	99.73	.23	.0275	1028.28
12-2	9:30A	40	84	53	55.56	4.38	47	99.84	.12	.0143	1029.94
12-16	8:30A	39	84	49	55.46	4.28	46	99.93	-.03	-.0036	1031.37
1969											
1-2	1030A	28	74	62	56.03	4.85	53	100.02	+0.06	+0.0072	1034.30

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-2L
Meter No. M-3
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.16 per cent
Resistance ratio, meter closed: 98.6 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.67 ohms
Change in temperature per ohm change in resistance 10.95 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
10/14	9:30A	48	78	60	55.58	5.91	65	101.39	+0.23	+0.0247	
11-1	9:00A	48	95	62	55.44	5.77	63	101.39	.23	.0247	
11-14	10:00A	44	88	60	55.28	5.61	61	101.41	.25	.0268	
12.2	9:30A	40	84	53	54.98	5.31	58	101.43	.27	.0290	
12-16	8:30A	39	84	49	54.62	4.95	54	101.43	.27	.0290	
1969											
1-2	10:30A	28	74	62	54.83	5.16	57	101.48	+0.32	+0.0343	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2aL
Meter No. M-7
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001032 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.04 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.84 ohms
Change in temperature per ohm change in resistance 10.91 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
10/14	9:30A	48	78	60	55.84	6.00	65	101.09	+0.05	+0.0052	
11-1	9:00A	48	95	62	55.77	5.93	65	101.09	.05	.0052	
11-14	10:00	44	88	60	55.60	5.76	63	101.09	.05	.0052	
12-2	9:30A	40	84	53	55.30	5.46	60	101.09	.05	.0052	
12-16	8:30A	39	84	49	54.94	5.10	56	101.09	.05	.0052	
1969											
1-2	1030A	28	74	62	55.06	5.22	57	101.09	+0.05	+0.0052	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-3L
Meter No. M-2
Sheet No.

Calibrations:

Calibration constant, corrected for leads .001117 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.09 per cent
Resistance ratio, meter closed: 98.1 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 51.69 ohms
Change in temperature per ohm change in resistance 10.95 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
10/14	9:30A	48	78	60	57.43	5.74	63	102.17	+1.08	+0.1206	
11-1	9:00A	48	95	62	57.15	5.46	60	102.16	1.07	.1195	
11-14	10:00	44	88	60	57.01	5.32	58	102.25	1.16	.1296	
12-2	9:30	40	84	53	56.43	4.74	52	102.25	1.16	.1296	
12-16	8:30	39	84	49	56.24	4.55	50	102.28	1.19	.1329	
1969											
1-2	1030A	28	74	62	56.14	4.45	49	102.29	+1.20	+0.1340	

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-1R
Meter No. M-6
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001159 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.76 per cent
Resistance ratio, meter closed: 98.0 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 49.76 ohms
Change in temperature per ohm change in resistance 10.88 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
10/14	9:30A				55.24	5.48	60	100.34	-0.42	-0.0487	1054.30
11-1	9:00A				54.74	4.98	54	100.40	.36	.0417	1054.33
11-14	10:00A				54.69	4.93	54	100.46	.30	.0348	1028.28
12-2	9:30A				54.40	4.64	50	100.53	.23	.0267	1029.94
12-16	8:30A				54.25	4.49	49	100.53	.23	.0267	1031.37
1969			(New		Thermo.	Inst.	12-20-68)				
1-2	1030A	32	66	58	54.50	4.74	52	100.67	-0.09	-0.0104	1034.30

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-2R
Meter No. M-1
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001147 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.82 per cent
Resistance ratio, meter closed: 97.9 per cent
Resistance ratio, meter open: 103.0 per cent
Meter resistance at 0°F, corrected for leads 50.07 ohms
Change in temperature per ohm change in resistance 10.95 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
10/14	9:30A				55.44	5.37	65	101.01	+0.19	+0.0218	
11-1	9:00A				55.06	4.99	55	101.02	.20	.0229	
11-14	10:00A				54.97	4.90	54	101.07	.25	.0287	
12-2	9:30A				54.70	4.63	51	101.08	.26	.0298	
12-16	8:30A				54.55	4.48	49	101.08	.26	.0298	
1969											
1-2	1030	32	66	58	54.75	4.68	51	101.13	+0.31	+0.0359	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2aR
Meter No. M-5
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.84 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 103.8 per cent
Meter resistance at 0°F, corrected for leads 49.99 ohms
Change in temperature per ohm change in resistance 10.93 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
10/14	9:30A				55.51	5.52	60	101.01	+0.17	+0.0203	
11-1	9:00A				55.21	5.22	57	101.02	.18	.0215	
11-14	10:00A				55.05	5.06	55	101.02	.18	.0215	
12-2	9:30A				54.82	4.83	53	101.02	.18	.0215	
12-16	8:30A				54.73	4.74	52	101.02	.18	.0215	
1969											
1-2	10:30A	32	66	58	54.67	4.68	55	101.03	+0.19	+0.0227	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-3R
Meter No. M-4
Sheet No.

Calibrations:

Calibration constant, corrected for leads .001088 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.79 per cent
Resistance ratio, meter closed: 98.9 per cent
Resistance ratio, meter open: 104.5 per cent
Meter resistance at 0°F, corrected for leads 50.57 ohms
Change in temperature per ohm change in resistance 10.93 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
10/14	9:30A				56.20	5.63	62	101.84	+0.05	+0.0054	
11-1	9:00A				55.84	5.27	58	101.86	.07	.0076	
11-14	10:00A				55.70	5.13	56	101.96	.17	.0185	
12-2	9:30A				55.38	4.81	53	102.00	.21	.0228	
12-16	8:30A				55.26	4.69	52	102.01	.22	.0239	
1969											
1-2	1030A	32	66	58	55.30	4.73	52	102.05	+0.26	+0.0283	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-1L
Meter No. M-8
Sheet No.

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 99.96 per cent
Resistance ratio, meter closed: 97.3 per cent
Resistance ratio, meter open: 102.2 per cent
Meter resistance at 0°F, corrected for leads 51.18 ohms
Change in temperature per ohm change in resistance 10.84 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-16	8:30A	52	94	70	57.06	5.88	64	99.46	-0.50	-0.0597	1060.47
8-1	9:00	60	93	70	57.27	6.09	66	99.39	.57	.0681	1059.16
8-14	8:30	55	90	66	56.73	5.55	60	99.42	.54	.0645	1057.94
9-3	7:30	53	97	63	57.05	5.87	64	99.39	.57	.0681	1056.03
9-16	8:00	54	99	62	56.61	5.43	59	99.40	.56	.0669	1054.41
10-1	8:30A	48	98	62	56.80	5.62	61	99.40	-0.56	-0.0669	1054.27

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2L
Meter No. M-3
Sheet No.

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.16 per cent
Resistance ratio, meter closed: 98.6 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.67 ohms
Change in temperature per ohm change in resistance 10.95 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-16	8:30A	52	94	70	56.32	6.65	73	101.36	+0.20	+0.0215	
8-1	9:00	60	93	70	56.48	6.81	75	101.35	.19	.0204	
8-14	8:30	55	90	66	56.23	6.56	72	101.33	.17	.0182	
9-3	7:30	53	97	63	56.40	6.73	74	101.32	.16	.0172	
9-16	8:00	54	99	62	56.27	6.60	72	101.28	.12	.0129	
10-1	8:30A	48	98	62	56.09	6.42	70	101.33	+0.17	+0.0182	

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-2aL
Meter No. M-7
Sheet No.

Calibrations:

Calibration constant, corrected for leads .001032 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.04 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.84 ohms
Change in temperature per ohm change in resistance 10.91 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-16	8:30A	52	94	70	56.52	6.68	73	101.08	+0.04	+0.0041	
8-1	9:00	60	93	70	56.71	6.87	75	101.07	.03	.0031	
8-14	8:30	55	90	66	56.49	6.65	73	101.10	.06	.0062	
9-3	7:30	53	97	63	56.67	6.83	75	101.10	.06	.0062	
9-16	8:00	54	99	62	56.55	6.71	73	101.10	.06	.0062	
10-1	8:30A	48	98	62	56.37	6.53	71	101.09	+0.05	+0.0052	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-3L
Meter No. M-2
Sheet No.

Calibrations:

Calibration constant, corrected for leads: .001117 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.09 per cent
Resistance ratio, meter closed: 98.1 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 51.69 ohms
Change in temperature per ohm change in resistance 10.95 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-16	8:30A	52	94	70	57.88	6.19	68	102.11	+ 1.02	+0.1139	
8-1	9:00	60	93	70	58.02	6.33	69	102.13	1.04	.1162	
8-14	8:30	65	90	66	57.85	6.16	67	102.14	1.05	.1173	
9-3	7:30	53	97	63	57.89	6.20	68	102.16	1.07	.1195	
9-16	8:00	54	99	62	57.77	6.08	67	102.16	1.07	.1195	
10-1	8:30A	48	98	62	57.60	5.91	65	102.17	+ 1.08	+0.1206	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-1R
Meter No. M-6
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001159 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.76 per cent
Resistance ratio, meter closed: 98.0 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 49.76 ohms
Change in temperature per ohm change in resistance 10.88 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-16	8:30A	53	96	72	55.93	6.17	67	100.36	-0.40	-0.0464	1060.47
8-1	9:00	Thermo. Stolen			56.04	6.28	68	100.30	.46	.0533	1059.16
8-14	8:30	55	90	66	55.67	5.91	64	100.31	.45	.0522	1057.94
9-3	7:30	53	97	63	55.67	5.91	64	100.28	.48	.0556	1056.03
9-16	8:00	54	99	62	55.43	5.67	62	100.27	.49	.0568	1054.41
10-1	8:30A	48	98	62	55.50	5.74	62	100.28	-0.48	-0.0556	1054.27

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2R
Meter No. M-1
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001147 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.82 per cent
Resistance ratio, meter closed: 97.9 per cent
Resistance ratio, meter open: 103.0 per cent
Meter resistance at 0°F, corrected for leads 50.07 ohms
Change in temperature per ohm change in resistance 10.95 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-16	8:30A	53	96	72	56.06	5.99	66	100.98	+0.16	+0.0184	
8-1	9:00				56.24	6.17	68	100.97	.15	.0172	
8-14	8:30	55	90	66	55.91	5.84	64	100.99	.17	.0195	
9-3	7:30	53	97	63	55.89	5.82	64	100.97	.15	.0172	
9-16	8:00	54	99	62	55.69	5.62	62	100.98	.16	.0184	
10-1	8:30A	48	98	62	55.73	5.66	62	100.98	+0.16	+0.0184	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2aR
Meter No. M-5
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.84 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 103.8 per cent
Meter resistance at 0°F, corrected for leads 49.99 ohms
Change in temperature per ohm change in resistance 10.93 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-16	8:30A	53	96	72	56.06	6.07	66	101.01	+0.17	+0.0203	
8-1	9:00				56.29	6.30	69	101.00	.16	.0191	
8-14	8:30	55	90	66	55.99	6.00	66	101.01	.17	.0203	
9-3	7:30	53	97	63	56.04	6.05	66	101.00	.16	.0191	
9-16	8:00	54	99	62	55.86	5.87	64	101.00	.16	.0191	
10-1	8:30A	48	98	62	55.85	5.86	64	101.00	+0.16	+0.0191	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-3R
Meter No. M-4
Sheet No.

Calibrations:

Calibration constant, corrected for leads .001088 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.79 per cent
Resistance ratio, meter closed: 98.9 per cent
Resistance ratio, meter open: 104.5 per cent
Meter resistance at 0°F, corrected for leads 50.57 ohms
Change in temperature per ohm change in resistance 10.93 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-16	8:30A	53	96	72	56.79	6.22	68	101.76	-0.03	-0.0033	
8-1	9:00				56.95	6.38	70	101.74	.05	.0054	
8-14	8:30	55	90	66	56.69	6.12	67	101.76	.03	.0033	
9-3	7:30	53	97	63	56.65	6.08	66	101.76	.03	.0033	
9-16	8:00	54	99	62	56.50	5.93	65	101.78	- .01	- .0011	
10-1	8:30A	48	98	62	56.45	5.88	64	101.80	+0.01	+0.0011	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-1L
Meter No. M-8
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 99.96 per cent
Resistance ratio, meter closed: 97.3 per cent
Resistance ratio, meter open: 102.2 per cent
Meter resistance at 0°F, corrected for leads 51.18 ohms
Change in temperature per ohm change in resistance 10.84 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-15	8:30A	46°	87°	53°	55.92	4.74	51	99.84	-0.12	-0.0143	1061.61
4-30	7:30A	40°	84°	58°	56.41	5.23	57	99.76	.20	.0239	1062.97
5-13	8:30A	45°	79°	52°	55.99	4.81	52	99.84	.12	.0143	1063.53
5-27	8:30A	40°	92°	86°	57.90	6.72	73	99.62	.34	.0406	1063.63
6-13	8:00A	47°	96°	69°	56.72	5.54	61	99.61	.35	.0418	1063.18
7-1	8:30A	52°	97°	62°	56.38	5.20	56	99.57	-0.39	-0.0466	1061.83

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2aL
Meter No. M-7
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001032 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.04 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.84 ohms
Change in temperature per ohm change in resistance 10.91 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-15	8:30A	46°	87°	53°	55.73	5.89	64	101.10	+0.06	+0.0062	
4-30	7:30A	40°	84°	58°	56.04	6.20	68	101.09	.05	.0052	
5-13	8:30A	45	79	52	55.44	5.60	61	101.08	.04	.0041	
5-27	8:30A	40	92	86	56.56	6.72	73	101.08	.04	.0041	
6-13	8:00A	47°	96°	69°	56.20	6.36	69	101.08	.04	.0041	
7-1	8:30A	52°	97°	62°	56.06	6.22	68	101.10	+0.06	+0.0062	

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-2L
Meter No. M-3
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.16 per cent
Resistance ratio, meter closed: 98.6 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.67 ohms
Change in temperature per ohm change in resistance 10.95 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-15	8:30A	46°	87°	53°	55.43	5.76	63	101.38	+0.22	+0.0236	
4-30	7:30A	40°	84°	58°	55.79	6.12	67	101.38	.22	.0236	
5-13	8:30A	45	79	52	55.19	5.52	60	101.42	.26	.0279	
5-27	8:30A	40	92	86	56.40	6.73	74	101.42	.26	.0279	
6-13	8:00A	47°	96°	69°	55.99	6.32	69	101.39	.23	.0247	
7-1	8:30A	52°	97°	62°	55.83	6.16	67	101.36	+0.20	+0.0215	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-3L
Meter No. M-2
Sheet No.

Calibrations:

Calibration constant, corrected for leads .001117 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.09 per cent
Resistance ratio, meter closed: 98.1 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 51.69 ohms
Change in temperature per ohm change in resistance 10.95 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-15	8:30A	46°	87°	53°	56.95	5.26	58	102.06	+ .97	0.1083	
4-30	7:30A	40°	84°	58°	57.01	5.32	58	102.07	+ .98	0.1095	
5-13	8:30A	45°	79°	52°	56.84	5.15	56	102.07	+ .98	0.1095	
5-27	8:30A	40°	92°	86°	57.52	5.83	64	102.09	+ 1.00	0.1117	
6-13	8:00A	47°	96°	69°	57.51	5.82	64	102.08	+ .99	0.1106	
7-1	8:30A	52°	97°	62°	57.59	5.40	65	102.10	+ 1.01	0.1128	

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-1R
Meter No. M-6
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001159 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.76 per cent
Resistance ratio, meter closed: 98.0 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 49.76 ohms
Change in temperature per ohm change in resistance 10.88 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-15	8:30A	45°	80°	54°	54.66	4.90	53	100.78	+0.02	+0.0023	1061.61
4-30	7:30A	41°	81°	57°	54.95	5.19	56	100.73	-.03	-.0035	1062.97
5-13	8:30A	46°	77°	54°	54.79	5.03	55	100.72	.04	.0046	1063.53
5-27	8:30A	42°	95°	85°	56.66	6.90	75	100.51	.25	.0290	1063.63
6-13	8:00A	50°	96°	70°	55.61	5.85	64	100.52	.24	.0278	1063.18
7-1	8:30A	54°	95°	65°	55.37	5.61	61	100.46	-0.30	-0.0348	1061.83

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-2R
Meter No. M-1
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001147 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.82 per cent
Resistance ratio, meter closed: 97.9 per cent
Resistance ratio, meter open: 103.0 per cent
Meter resistance at 0°F, corrected for leads 50.07 ohms
Change in temperature per ohm change in resistance 10.95 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-15	8:30A	45°	80°	54°	54.87	4.80	53	101.03	+0.21	+0.0241	
4-30	7:30A	41°	81°	57°	55.16	5.09	56	101.02	.20	.0229	
5-13	8:30A	46°	77°	54°	54.99	4.92	54	101.02	.20	.0229	
5-27	8:30A	42°	95°	85°	56.66	6.59	77	100.95	.13	.0149	
6-13	8:00A	50°	96°	70°	55.72	5.65	62	101.00	.18	.0206	
7-1	8:30A	54°	95°	65°	55.50	5.43	59	101.00	+0.18	+0.0206	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2aR
Meter No. M-5
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.84 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 103.8 per cent
Meter resistance at 0°F, corrected for leads 49.99 ohms
Change in temperature per ohm change in resistance 10.93 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-15	8:30A	45°	80°	54°	55.13	5.14	56	101.01	+0.17	+0.0203	
4-30	7:30A	41°	81°	57°	55.30	5.31	58	101.01	.17	.0203	
5-13	8:30A	46°	77°	54	55.20	5.21	57	101.00	.16	.0191	
5-27	8:30A	42°	95°	85	55.88	5.89	64	101.02	.18	.0215	
6-13	8:00A	50°	96°	70°	55.65	5.66	62	101.01	.17	.0203	
7-1	8:30A	54°	95°	65°	55.71	5.72	63	101.01	+0.17	+0.0203	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-3R
Meter No. M-4
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001088 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.79 per cent
Resistance ratio, meter closed: 98.9 per cent
Resistance ratio, meter open: 104.5 per cent
Meter resistance at 0°F, corrected for leads 50.57 ohms
Change in temperature per ohm change in resistance 10.93 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-15	8:30A	45°	80°	54°	55.63	5.06	55	101.88	+0.09	+0.0098	
4-30	7:30A	41°	81°	57°	55.87	5.30	58	101.86	.07	.0076	
5-13	8:30A	46°	77°	54°	55.74	5.17	57	101.86	.07	.0076	
5-27	8:30A	42°	95°	85°	57.10	6.53	71	101.80	.01	.0011	
6-13	8:00A	50°	96°	70°	56.45	5.88	64	101.80	+0.01	+0.0011	
7-1	8:30A	54°	95°	65°	56.35	5.78	63	101.79	0	0	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-1L
Meter No. M-8
Sheet No.

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 99.96 per cent
Resistance ratio, meter closed: 97.3 per cent
Resistance ratio, meter open: 102.2 per cent
Meter resistance at 0°F, corrected for leads 51.18 ohms
Change in temperature per ohm change in resistance 10.84 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1/19	9:00A	37	72	57	55.56	4.38	47	100.15	+0.19	+0.0227	1047.11
2/12	9:00A	33	80	58	55.49	4.31	47	100.18	.22	.0263	1047.67
2/13	3:00P	43	74	50	55.65	4.47	48	100.12	.16	.0191	1051.72
3/1	8:30A	43	83	54	55.83	4.65	50	99.97	.01	.0012	1050.80
3/14	8:30A	39	82	48	54.80	3.62	39	100.03	+ .07	+ .0084	1061.67
"	11:00A			57	56.41	5.23	57	99.96	0	0	1061.69
"	1:30P			61	57.19	6.01	65	99.93	− .03	− .0036	1061.71
"	4:00P			61	57.08	5.90	64	99.94	− .02	− .0024	1061.70
4/12	8:30A	43	83	52	55.25	4.07	44	99.96	0	0	1062.21

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-2L
Meter No. M-3
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.16 per cent
Resistance ratio, meter closed: 98.6 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.67 ohms
Change in temperature per ohm change in resistance 10.95 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1/19	9:00A	37	72	57	54.70	5.03	55	101.49	+0.33	+0.0354	
2/2	9:00A	33	80	58	54.62	4.95	51	101.49	.33	.0354	
2/13	3:00P	43	74	50	54.57	4.90	54	101.48	.32	.0343	
3/1	8:30A	43	83	54	55.26	5.59	61	101.43	.27	.0290	
3/14	8:30A	39	82	48	54.59	4.92	54	101.43	.27	.0290	
"	11:00A			57	54.93	5.26	58	101.47	.31	.0333	
"	1:30P			61	55.59	5.92	65	101.45	.29	.0312	
"	4:00P			61	56.06	6.39	70	101.41	.25	.0268	
4/2	8:30A	43	83	52	54.77	5.10	56	101.41	+0.25	+0.0268	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2aL
Meter No. M-7
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001032 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.04 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.84 ohms
Change in temperature per ohm change in resistance 10.91 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1/19	9:00A	37	72	57	54.99	5.15	56	101.08	+0.04	+0.0041	
2/12	9:00A	33	80	58	54.87	5.03	55	101.08	.04	.0041	
2/13	3:00P	43	74	50	54.83	4.99	54	101.07	.03	.0031	
3/1	8:30A	43	83	54	55.58	5.74	63	101.09	.05	.0052	
3/14	8:30A	39	82	48	54.90	5.06	55	101.09	.05	.0052	
"	11:00A			57	55.13	5.29	58	101.08	.04	.0041	
"	1:30P			61	55.62	5.78	63	101.11	.07	.0072	
"	4:00P			61	56.03	6.19	68	101.16	.12	.0124	
4/2	8:30A	43	83	52	55.06	5.22	57	101.10	+0.06	+0.0062	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-3L
Meter No. M-2
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001117 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.09 per cent
Resistance ratio, meter closed: 98.1 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 51.69 ohms
Change in temperature per ohm change in resistance 10.95 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1/19	9:00A	37	72	57	56.20	4.51	49	102.18	+1.09	+0.1218	
2/2	9:00A	33	80	58	56.29	4.60	50	102.15	1.06	.1184	
2/13	3:00P	43	74	50	56.39	4.70	51	102.13	1.04	.1162	
3/1	8:30A	43	83	54	56.74	5.05	55	102.12	1.03	.1151	
3/14	8:30A	39	82	48	56.42	4.73	52	102.07	0.98	.1095	
"	11:00A			57	56.52	4.83	53	102.09	1.00	.1117	
"	1:30P			61	56.70	5.01	55	102.10	1.01	.1128	
"	4:00P			61	56.77	5.08	56	102.11	1.02	.1139	
4/2	8:30A	43	83	52	56.63	4.94	54	102.06	+0.97	+0.1083	

ABUTMENT YIELD MEASUREMENT DATA

Project: *MATILIJA DAM*

Drill-hole No. DH-1R
Meter No. M-6
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001159 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.76 per cent
Resistance ratio, meter closed: 98.0 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 49.76 ohms
Change in temperature per ohm change in resistance 10.88 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1/19	9:00A	37	65	54	54.37	4.61	50	100.89	+0.13	+0.0151	1047.11
2/2	9:00A	32	72	52	54.24	4.48	49	100.90	.14	.0162	1047.67
2/13	3:00P	42	66	50	54.39	4.63	50	100.86	.10	.0116	1051.72
3/1	8:30A	43	76	53	54.58	4.82	52	100.83	.07	.0081	1050.80
3/14	8:30A	39	75	46	53.97	4.21	46	100.84	.08	.0093	1061.67
"	11:00A			53	54.34	4.58	50	100.84	.08	.0093	1061.69
"	1:30P			55	54.51	4.75	52	100.84	.08	.0093	1061.71
"	4:00P			56	54.60	4.84	53	100.83	.07	.0081	1061.70
4/3	8:30A	41	74	50	54.34	4.58	50	100.82	+0.06	+0.0070	1062.21

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2R
Meter No. M-1
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001147 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.82 per cent
Resistance ratio, meter closed: 97.9 per cent
Resistance ratio, meter open: 103.0 per cent
Meter resistance at 0°F, corrected for leads 50.07 ohms
Change in temperature per ohm change in resistance 10.95 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1/19	9:00A	37	65	54	54.62	4.55	50	101.09	+0.27	+0.0310	
2/2	9:00A	32	72	52	54.50	4.43	48	101.09	.27	.0310	
2/13	3:00P	42	66	50	54.62	4.55	50	101.05	.23	.0264	
3/1	8:30A	43	76	53	54.86	4.79	52	101.05	.23	.0264	
3/14	8:30A	39	75	46	54.31	4.24	46	101.04	.22	.0252	
"	11:00A			53	54.63	4.56	50	101.06	.24	.0275	
"	1:30P			55	54.76	4.69	51	101.05	.23	.0264	
"	4:00P			56	54.83	4.76	52	101.05	.23	.0264	
4/2	8:30A	41	74	50	54.60	4.53	50	101.04	+0.22	+0.0252	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2aR
Meter No. M-5
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.84 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 103.8 per cent
Meter resistance at 0°F, corrected for leads 49.99 ohms
Change in temperature per ohm change in resistance 10.93 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1/19	9:00A	37	65	54	54.67	4.68	51	101.02	+0.18	+0.0215	
2/2	9:00A	32	72	52	54.50	4.51	49	101.02	.18	.0215	
2/13	3:00P	42	66	50	54.72	4.73	52	101.01	.17	.0203	
3/1	8:30A	43	76	53	54.99	5.00	55	101.01	.17	.0203	
3/14	8:30A	39	75	46	54.45	4.46	49	101.01	.17	.0203	
"	11:00A			53	54.60	4.61	50	101.03	.19	.0227	
"	1:30P			55	54.69	4.70	51	101.02	.18	.0215	
"	4:00P			56	54.75	4.76	52	101.02	.18	.0215	
4/2	8:30A	41	74	50	54.86	4.87	53	101.02	+0.18	+0.0215	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-3R
Meter No. M-4
Sheet No.

Calibrations:

Calibration constant, corrected for leads .001088 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.79 per cent
Resistance ratio, meter closed: 98.9 per cent
Resistance ratio, meter open: 104.5 per cent
Meter resistance at 0°F, corrected for leads 50.57 ohms
Change in temperature per ohm change in resistance 10.93 °F

1968 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1/19	9:00A	37	65	54	55.21	4.64	51	102.03	+0.24	+0.0261	
2/2	9:00A	37	72	52	55.17	4.60	50	102.02	.23	.0250	
2/13	3:00P	47	66	50	55.29	4.72	52	101.97	.18	.0196	
3/1	8:30A	43	76	53	55.53	4.96	54	101.94	.15	.0163	
3/14	8:30A	39	75	46	55.10	4.53	50	101.92	.13	.0141	
"	11:00A			53	55.37	4.80	52	101.93	.14	.0152	
"	1:30P			55	55.46	4.89	53	101.93	.14	.0152	
"	4:00P			56	55.50	4.93	54	101.92	.13	.0141	
4/2	8:30A	41	74	50	55.34	4.77	52	101.90	+0.11	+0.0120	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-1L

Meter No. J-78

Sheet No.

New meter installed 11/18/76 and adjusted to equal reading of old meter at time of replacement.

Calibrations:

Calibration constant, corrected for leads .000622 **inches per 0.01% ratio change**

Resistance ratio at initial reading 102.46 **per cent** *

Resistance ratio, meter closed: 97.0 **per cent**

Resistance ratio, meter open: 105.1 **per cent**

Meter resistance at 0°F, corrected for leads 54.96 **ohms**

Change in temperature per ohm change in resistance 9.72 **°F**

* Adjusted resistance ratio after 7/21/76 (111.559)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1977											
10-10	8:30A	51°	90°	63°	60.80	5.84	57°	100.46	-11.099	-0.6904	1078.43
10-24	8:00A	48°	98°	70°	61.18	6.22	60°	100.37	-11.189	-0.6960	1078.57
11-7	8:45A	46°	98°	63°	60.30	5.34	52°	100.40	-11.159	-0.6941	1078.64
11-21	9.15A	40°	88°	59°	59.91	4.95	48°	100.42	-11.139	-0.6928	1078.52
12-5	8:30A	46°	92°	71°	61.44	6.48	63°	100.21	-11.349	-0.7059	1078.50
12-19	9:00A	42°	83°	48°	59.21	4.25	41°	100.48	-11.079	-0.6891	1078.60
12-29	9:00A	48°	68°	57°	60.16	5.22	51°	100.47	-11.089	-0.6897	1089.32
1978											
1-12	7:30A	43°	60°	49°	59.63	4.67	45°	100.57	-10.989	-0.6835	1089.24
1-15	9:30A	48°	67°	58°	59.94	4.98	48°	100.56	-10.999	-0.6841	1096.17
1-23	7:30A	45°	74°	46°	59.69	4.73	46°	100.50	-11.059	-0.6879	1094.43
2-6	7:30A	39°	81°	52°	60.31	5.35	52°	100.39	-11.169	-0.6947	1095.70
2-10	2:00P	44°	64°	56°	OUT OF ORDER			OUT OF ORDER			1097.83
2-21	9:00A	40°	82°	62°	" " "			" " "			1095.17
3-7	8:00A	43°	88°	52°	" " "			" " "			1096.29
3-20	7:30A	43°	97°	56°	" " "			" " "			1095.22
4-3	7:15A	45°	91°	48°	" " "			" " "			1095.40
4-5	10:30A	44°	71°	60°	" " "			" " "			1095.36
4-6	10:00A	47°	71°	55°	" " "			" " "			1095.32
4-6	3:00P	Installed new J-80 joint meter									1095.31
4-10	1:35P	41°	76°	77°	out of order			out of order			1095.16
4-10	4:27P		Dynamite charge set off on Rt. abutment								
4-10	4:35P				out of order			Out of order			1095.16
4-25	10:15A	41°	82°	55°	" " "			" " "			1094.85
5-8	7:45A	46°	86°	66°	" " "			" " "			1089.16
5-22	7:30A	51°	99°	56°	" " "			" " "			1083.82
6-5	8:00A	53°	106°	64°	" " "			" " "			1092.31
6-20	6:45A	53°	106°	70°	" " "			" " "			Empty (1050)
7-3	8:15A	58°	100°	70°	" " "			" " "			" (1050)

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2L
Meter No. M-3
Sheet No.

Original meter-cleaned & reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01% ratio change
Resistance ratio at initial reading 100.20 per cent *
Resistance ratio, meter closed: 98.6 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.67 ohms
Change in temperature per ohm change in resistance 10.95 °F
*Adjusted resistance ratio after 9-28-72 (100.06).

Date	Pac Std Time	Temperature Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1977											
10-10	8:30A	51°	90°	63°	55.99	6.32	69°	99.87	-0.190	-0.0204	
10-24	8:00A	48°	98°	70°	55.91	6.24	68°	99.90	-0.160	-0.0172	
11-7	8:45A	46°	98°	63°	55.30	5.63	62°	99.88	-0.180	-0.0193	
11-21	9:15A	40°	88°	59°	54.99	5.32	58°	99.91	-0.150	-0.0161	
12-5	8:30A	46°	92°	71°	55.69	6.02	66°	99.92	-0.140	-0.0150	
12-19	9:00A	42°	83°	48°	54.47	4.80	53°	99.89	-0.170	-0.0182	
12-29	9:00A	48°	68°	57°	54.86	5.19	57°	99.94	-0.120	-0.0129	
1978											
1-12	7:30A	43°	60°	49°	55.19	5.52	60°	99.82	-0.240	-0.0258	
1-15	9:30A	48°	67°	58°	55.96	6.29	69°	99.93	-0.130	-0.0139	
1-23	7:30A	45°	74°	46°	55.43	5.76	63°	99.82	-0.240	-0.0258	
2-6	7:30A	39°	81°	52°	55.69	6.02	66°	99.95	-0.110	-0.0118	
2-10	2:00P	44°	64°	56°	56.05	6.38	70°	99.95	-0.110	-0.0118	
2-21	9:00A	40°	82°	62°	56.22	6.55	72°	99.82	-0.240	-0.0258	
3-7	8:00A	43	88°	52°	56.11	6.44	71°	99.86	-0.200	-0.0215	
3-20	7:30A	43	97°	56°	56.08	6.41	70°	99.86	-0.200	-0.0215	
4-3	7:15A	45°	91°	48°	55.97	6.30	69°	99.84	-0.220	-0.0236	
4-5	10:30A	44°	71°	60°	55.97	6.30	69°	99.96	-0.100	-0.0107	
4-6	10:00A	47°	71°	55°	55.97	6.30	69°	99.95	-0.110	-0.0118	
4-6	1:30P	Installed new J-80 joint meter									
4-10	1:35P	[illegible]	[illegible]	77	56.16	6.49	71°	99.95	-0.110	-0.0118	
4-10	4:27P	Dynamite charge set off - rt. abutment									
4-10	4:35P				56.16	6.49	71°	99.95	-0.110	-0.0118	
4-25	10:15A	41°	82°	55°	55.48	6.21	68°	99.95	-0.110	-0.0118	
5-8	7:45A	46°	86°	66°	55.84	6.17	68°	99.97	-0.090	-0.0097	
5-22	7:30A	51°	99°	56°	55.38	5.71	63°	99.95	-0.110	-0.0118	
6-5	8:00A	53°	106°	64°	55.60	5.93	65°	99.96	-0.100	-0.0107	
6-20	6:45A	53°	106°	70°	56.38	6.71	73°	99.97	-0.090	-0.0097	
7-3	8:15A	58°	100°	70°	56.21	6.54	72°	99.98	-0.080	-0.0086	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

New meter installed 10/21/76 and adjusted to equal reading of old meter at time of replacement.

Drill-hole No DH-2aL

Meter No. J-18

Sheet No.

Calibrations:

Calibration constant, corrected for leads .000647 **inches per 0.01% ratio change**

Resistance ratio at initial reading 100.19 **per cent** *

Resistance ratio, meter closed: 96.2 **per cent**

Resistance ratio, meter open: 104.0 **per cent**

Meter resistance at 0°F, corrected for leads 55.35 **ohms**

Change in temperature per ohm change in resistance 9.49 **°F**

* Adjusted resistance ratio after 9/28/72 (99.88)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1977											
10-10	8:30A	51°	90°	63°	62.83	7.48	71°	100.28	+0.400	+0.0259	
10-24	8:00A	48°	98°	70°	62.72	7.37	70°	100.30	+0.420	+0.0272	
11-7	8:45A	46°	98°	63°	62.10	6.75	64°	100.27	+0.390	+0.0252	
11-21	9:15A	40°	88°	59°	61.75	6.40	61°	100.30	+0.420	+0.0272	
12-5	8:30A	46°	92°	71°	62.43	7.08	67°	100.33	+0.450	+0.0291	
12-19	9:00A	42°	83°	48°	61.17	5.82	55°	100.36	+0.480	+0.0311	
12-29	9:00A	48°	68°	57°	62.47	7.12	68°	100.38	+0.500	+0.0324	
1978											
1-12	7:30A	43°	60°	49°	62.31	6.96	66°	100.36	+0.480	+0.0311	
1-15	9:30A	48°	67°	58°	62.22	6.87	65°	100.36	+0.480	+0.0311	
1-23	7:30A	45°	74°	46°	62.10	6.75	64°	100.40	+0.520	+0.0336	
2-6	7:30A	39°	81°	52°	62.17	6.82	65°	100.41	+0.530	+0.0343	
2-10	2:00P	44°	64°	56°	62.12	6.77	64°	100.41	+0.530	+0.0343	
2-21	9:00A	40°	82°	62°	62.18	6.83	65°	100.40	+0.520	+0.0336	
3-7	8:00A	43°	88°	52°	62.17	6.82	65°	100.35	+0.470	+0.0304	
3-20	7:30A	43°	97°	56°	62.31	6.96	66°	100.42	+0.540	+0.0349	
4-3	7:15A	45°	91°	48°	OUT OF ORDER			OUT OF ORDER	water seeping from	drill hole	
4-5	10:30A	44°	71°	60°	"			"	"	" "	" "
4-6	Removed Joint Meter J-18 and replaced with new Meter J-80 - See next sheet										

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ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2aL

Meter No. J-80

Sheet No.

New meter installed 4/6/78 and adjusted to equal reading of previous meter at last observation on 3/20/78.

Calibrations:

Calibration constant, corrected for leads .000637 **inches per 0.01% ratio change**

Resistance ratio at initial reading 100.45 **per cent**

Resistance ratio, meter closed: 96.9 **per cent**

Resistance ratio, meter open: 104.8 **per cent**

Meter resistance at 0°F, corrected for leads 54.85 **ohms**

Change in temperature per ohm change in resistance 9.64 **°F**

* Adjusted resistance ratio after 9/28/72 = (99.88)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1978											
4-6	3:00PM				61.33	6.48	62°	100.45	+0.570	+0.0363	1095.31
4-10	1:35P			77°	61.82	6.97	67°	100.44	+0.560	+0.0357	
4-10	4:27P			Dynamite charge set off - Mt. abutment							
4-10	4:35P				61.84	6.99	67°	100.43	+0.550	+0.0350	
4-25	10:15A	41°	82°	55°	61.34	6.49	63°	100.46	+0.580	+0.0370	
5-8	7:45A	46°	86°	66°	61.42	6.57	63°	100.47	+0.590	+0.0376	
5-22	7:30A	51°	99°	56°	61.38	6.53	63°	100.49	+0.610	+0.0389	
6-5	8:00A	53°	106°	64°	61.50	6.65	64°	100.47	+0.590	+0.0376	
6-20	6:45A	53°	106°	70°	62.36	7.51	72°	100.48	+0.600	+0.0382	
7-3	8:15A	58°	100°	70°	62.21	7.36	71°	100.50	+0.620	+0.0395	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-3L
Meter No. J-14
Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000681 inches per 0.01% ratio change
Resistance ratio at initial reading 100.14 per cent *
Resistance ratio, meter closed: 95.2 per cent
Resistance ratio, meter open: 102.9 per cent
Meter resistance at 0°F, corrected for leads 56.75 ohms
Change in temperature per ohm change in resistance 9.61 °F
*Adjusted resistance ratio after 9-28-72 (98.231).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1977											
10-10	8:30A	51°	90°	63°	63.67	6.92	66°	100.51	+2.279	+0.1552	
10-24	8:00A	48°	98°	70°	63.53	6.78	65°	100.52	+2.289	+0.1559	
11-7	8:45A	46°	98°	63°	63.20	6.45	62°	100.50	+2.269	+0.1545	
11-21	9:15A	40°	88°	59°	62.85	6.10	59°	100.52	+2.289	+0.1559	
12-5	8:30A	46°	92°	71°	62.77	6.02	58°	100.52	+2.289	+0.1559	
12-19	9:00A	42°	83°	48°	62.52	5.77	55°	100.52	+2.289	+0.1559	
12-29	9:00A	48°	68°	57°	62.42	5.67	54°	100.50	+2.269	+0.1545	
1978											
1-12	7:30A	43°	60°	49°	62.39	5.64	54°	100.46	+2.229	+0.1518	
1-15	9:30A	48°	67°	58°	62.36	5.61	54°	100.41	+2.179	+0.1484	
1-23	7:30A	45°	74°	46°	62.20	5.45	52°	100.38	+2.149	+0.1463	
2-6	7:30A	39°	81°	57°	62.30	5.55	53°	100.38	+2.149	+0.1463	
2-10	2:00 P	44°	64°	56°	62.00	5.25	50°	100.29	+2.059	+0.1402	
2-21	9:00A	40°	82°	62°	62.07	5.32	51°	100.26	+2.029	+0.1382	
3-7	8:00A	43°	88°	52°	OUT OF ORDER			OUT OF ORDER			
3-20	7:30A	43°	97°	56°	" "			" "			
4-3	7:15A	45	91°	48°	" "			" "			
4-5	10:30A	44°	71°	60°	" "			" "			
4-6	10:00A				" "			" "			
4-6	3:00P	Installed new J-80 joint meter									
4-10	1:35P				out of order			out of order			
4-10	4:27P	Dynamite charge set off — rt. abutment									
4-10	4:35P				Out of order			Out of order			
4-25	10:15A				" " "			" " "			
5-8	7:45A				" " "			" " "			
5-22	7:30A				" " "			" " "			
6-5	8:00A				" " "			" " "			
6-20	6:45A				" " "			" " "			
7-3	8:15A				" " "			" " "			

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ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH - 1R

Meter No. M - 6

Sheet No.

Leads extended 2-26-75

Calibrations:

Calibration constant, corrected for leads .001216 inches per 0.01% ratio change

Resistance ratio at initial reading 100.57 per cent*

Resistance ratio, meter closed: 98.0 per cent

Resistance ratio, meter open: 103.6 per cent

Meter resistance at 0°F, corrected for leads 52.19 ohms

Change in temperature per ohm change in resistance 10.88 °F

*Adjusted resistance ratio after 2-26-75 (100.723)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1977											
10-10	8:30A	51°	86°	61°	58.00	5.81	63°	99.85	-0.873	-0.1062	1078.43
10-24	8:00A	49°	93°	67°	58.29	6.10	66°	99.85	-0.873	-0.1062	1078.57
11-7	8:45A	46°	84°	59°	57.66	5.47	60°	99.88	-0.843	-0.1025	1078.64
11-21	9:15	39°	83°	55°	57.27	5.08	55°	99.89	-0.833	-0.1013	1078.52
12-5	8:30	46°	88°	71°	58.52	6.33	69°	99.86	-0.863	-0.1049	1078.50
12-19	9:00	43°	79°	49°	56.81	4.62	50°	99.93	-0.793	-0.0964	1078.60
12-29	9:00A	47°	66°	58°	57.40	5.21	57°	100.01	-0.713	-0.0867	1089.32
1978											
1-12	7:30A	42°	60°	47	56.90	4.71	51°	100.23	-0.493	-0.0599	1089.24
1-15	9:30A	No	Access		57.00	4.81	52°	100.26	-0.463	-0.0563	1096.17
1-23	7:30A	"	"		56.71	4.52	49°	100.33	-0.393	-0.0478	1094.43
2-6	7:30A	"	"		57.21	5.02	55°	100.32	-0.403	-0.0490	1095.70
2-10	2:00P	"	"		56.97	4.78	52°	100.33	-0.393	-0.0478	1097.83
2-21	9:00A	"	"		57.39	5.20	57°	100.44	-0.283	-0.0344	1095.17
3-7	8:00A	"	"		56.90	4.71	51°	100.30	-0.423	-0.0514	1096.29
3-20	7:30A	"	"		57.57	5.38	59°	100.54	-0.183	-0.0223	1095.22
4-3	7:15A	"	"		57.51	5.32	58	102.38	+1.657	+0.2015	1095.40
4-5	10:30A	"	"		57.23	5.04	55°	100.30	-0.423	-0.0514	1095.36
4-6	10:00A	"	"		57.22	5.03	55°	100.30	-0.423	-0.0514	1095.32
4-10	1:35P	"	"		58.07	5.88	64°	100.29	-0.433	-0.0526	1095.16
4-10	4:27P		Dynamite charge set off — rt. abutment								
4-10	4:35P	No	Access		57.95	5.76	63°	100.29	-0.433	-0.0526	1095.16
4-25	10:15A	"	"	"	57.32	5.13	56°	100.27	-0.453	-0.0551	1094.85
5-8	7:45A	"	"	"	58.10	5.91	64°	100.26	-0.463	-0.0563	1089.16
5-22	7:30A	"	"	"	57.61	5.42	59°	100.23	-0.493	-0.0600	1083.82
6-5	8:00A	"	"	"	58.15	5.96	65°	100.20	-0.523	-0.0636	1992.31
6-20	6:45A	"	"	"	58.59	6.40	70°	100.19	-0.533	-0.0648	Empty (1050)
7-3	9:15A	"	"	"	58.66	6.47	70°	100.17	-0.553	-0.0672	" (1050)

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ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Leads extended 2-26-75

Drill-hole No DH - 2R

Meter No. M - 1

Sheet No.

Calibrations:

Calibration constant, corrected for leads .001202 inches per 0.01% ratio change

Resistance ratio at initial reading 100.00 per cent *

Resistance ratio, meter closed: 97.9 per cent

Resistance ratio, meter open: 103.0 per cent

Meter resistance at 0°F, corrected for leads 52.73 ohms

Change in temperature per ohm change in resistance 10.95 °F

*Adjusted resistance ratio after 2-26-75 (99.828)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1977											
10-10	8:30A	51°	86°	61°	58.28	5.55	61°	100.05	+0.222	+0.0267	
10-24	8:00A	49°	93°	67°	58.52	5.79	63°	100.07	+0.242	+0.0291	
11-7	8:45A	46°	84°	59°	57.94	5.21	57°	100.09	+0.262	+0.0315	
11-21	9:15A	39°	83°	55°	57.56	4.83	53°	100.10	+0.272	+0.0327	
12-5	8:30A	46°	88°	71°	58.69	5.96	65°	100.06	+0.232	+0.0279	
12-19	9:00A	43°	79°	49°	57.17	4.44	49°	100.10	+0.272	+0.0327	
12-29	9:00A	47°	66°	58°	58.16	5.43	59°	100.04	+0.212	+0.0255	
1978											
1-12	7:30A	42°	60°	47	57.29	4.56	50°	100.04	+0.212	+0.0255	
1-15	9:30A	No	Access		58.02	5.29	58°	100.04	+0.212	+0.0255	
1-23	7:30A	"	"		57.72	4.99	55°	100.04	+0.212	+0.0255	
2-6	7:30A	"	"		57.84	5.11	56°	100.02	+0.192	+0.0231	
2-10	2:00P	"	"		57.85	5.12	56°	100.01	+0.182	+0.0219	
2-21	9:00A	"	"		58.00	5.27	58°	100.04	+0.212	+0.0255	
3-7	8:00A	"	"		57.86	5.13	56°	100.03	+0.202	+0.0243	
3-20	7:30A	"	"		57.93	5.20	57°	100.01	+0.182	+0.0219	
4-3	7:15A	"	"		57.87	5.14	56°	102.01	+2.182	+0.2623	
4-5	10:30A	"	"		57.93	5.20	57°	100.03	+0.202	+0.0243	
4-6	10:00A	"	"		57.89	5.16	56°	100.02	+0.192	+0.0231	
4-10	1:35P	"	"		58.12	5.39	59°	100.02	+0.192	+0.0231	
4-10	4:27P	"	Dynamite		charge	set off	rt.	abutment			
4-10	4:35P	No	Access		58.07	5.34	58°	100.02	+0.192	+0.0231	
4-25	10:15A	"	"		57.83	5.10	56	100.01	+0.182	+0.0219	
5-8	7:45A	"	"		58.12	5.39	59°	100.01	+0.182	+0.0219	
5-22	7:30A	"	"		57.69	4.96	54°	100.01	+0.182	+0.0219	
6-5	8:00A	"	"		58.21	5.48	60°	100.00	+0.172	+0.0207	
6-20	6:45A	"	"		58.73	6.00	66°	100.04	+0.212	+0.0255	
7-3	9:15A	"	"		58.83	6.10	67°	100.05	+0.222	+0.0267	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

New meter installed 11/17/76 and adjusted to equal reading of old meter at time of replacement.

Drill-hole No DH-2aR

Meter No. J-79

Sheet No.

Calibrations:

Calibration constant, corrected for leads .000690 **inches per 0.01% ratio change**

Resistance ratio at initial reading 100.40 **per cent** *

Resistance ratio, meter closed: 96.4 **per cent**

Resistance ratio, meter open: 104.0 **per cent**

Meter resistance at 0°F, corrected for leads 57.46 **ohms**

Change in temperature per ohm change in resistance 9.72 **°F**

* Adjusted resistance ratio after 2/26/75 (99.827)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1977											
10-10	8:30A	51°	86°	61°	64.10	6.64	65°	100.46	+0.633	+0.0437	
10-24	8:00A	49°	93°	67°	64.08	6.62	64°	100.46	+0.633	+0.0437	
11-7	8:45A	46°	84°	59°	63.80	6.34	62°	100.47	+0.643	+0.0444	
11-21	9:15A	39°	83°	55°	63.56	6.10	59°	100.47	+0.643	+0.0444	
12-5	8:30A	46°	88°	71°	63.97	6.51	63°	100.47	+0.643	+0.0444	
12-19	9:00A	43°	79°	49°	63.29	5.83	57°	100.48	+0.653	+0.0451	
12-29	9:00A	47°	66°	58°	63.62	6.16	60°	100.47	+0.643	+0.0444	
1978											
1-12	7:30A	42°	60°	47°	63.39	5.93	58°	100.47	+0.643	+0.0444	
1-15	9:30A	No	Acce	ss	63.53	6.07	59°	100.47	+0.643	+0.0444	
1-23	7:30A	"	"		63.24	5.78	56°	100.50	+0.673	+0.0464	
2-6	7:30A	"	"		63.33	5.87	57°	100.49	+0.663	+0.0457	
2-10	2:00P	"	"		63.46	5.94	58°	100.49	+0.663	+0.0457	
2-21	9:00A	"	"		63.39	5.93	58°	100.50	+0.673	+0.0464	
3-7	8:00A	"	"		63.29	5.83	57°	100.49	+0.663	+0.0457	
3-20	7:30A	"	"		63.44	5.98	58°	100.45	+0.623	+0.0430	
4-3	7:15A	"	"		63.28	5.82	57°	100.47	+0.643	+0.0444	
4-5	10:20A	"	"		63.30	5.84	57°	100.49	+0.663	+0.0457	
4-6	10:00A	"	"		63.27	5.81	56°	100.49	+0.663	+0.0458	
4-10	1:35P	"	"		63.45	5.99	58°	100.48	+0.653	+0.0451	
4-10	4:27P	"	Dynamite charge set off — rt. abutment								
4-10	4:35P	No	Acce	ss	63.44	5.98	58°	100.48	+0.653	+0.0451	
4-25	10:15A	"	"		63.31	5.85	57°	100.47	+0.643	+0.0444	
5-8	7:45A	"	"		63.62	6.16	60°	100.47	+0.643	+0.0444	
5-22	7:30A	"	"		63.47	6.01	58°	100.47	+0.643	+0.0444	
6-5	8:00A	"	"		63.70	6.24	61°	100.47	+0.643	+0.0444	
6-20	6:45A	"	"		64.24	6.78	66°	100.48	+0.653	+0.0451	
7-3	9:15A	"	"		64.27	6.81	66°	100.47	+0.643	+0.0444	

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ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

New meter installed 11/17/76 and adjusted to equal reading of old meter at time of replacement.

Drill-hole No DH-3R

Meter No. J-77

Sheet No.

Calibrations:

Calibration constant, corrected for leads .000679 **inches per 0.01% ratio change**

Resistance ratio at initial reading 100.44 **per cent** *

Resistance ratio, meter closed: 95.8 **per cent**

Resistance ratio, meter open: 103.7 **per cent**

Meter resistance at 0°F, corrected for leads 58.08 **ohms**

Change in temperature per ohm change in resistance 9.77 **°F**

* Adjusted resistance ratio after 2/26/75 (100.16)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1977											
10-10	8:30A	51°	86°	61°	64.61	6.53	64°	100.29	+0.130	+0.0088	
10-24	8:00A	49°	93°	67°	64.56	6.48	63°	100.31	+0.150	+0.0102	
11-7	8:45A	46°	84°	59°	64.07	5.99	59°	100.33	+0.170	+0.0115	
11-21	9:15A	39°	83°	55°	63.71	5.63	55°	100.37	+0.210	+0.0143	
12-5	8:30	46°	88°	71°	64.43	6.35	62°	100.36	+0.200	+0.0136	
12-19	9:00	43°	79°	49°	63.32	5.24	51°	100.40	+0.240	+0.0163	
12-29	9:00A	47°	66°	58°	63.77	5.69	56	100.36	+0.200	+0.0136	
1978											
1-12	7:30A	42°	60°	47°	63.38	5.30	52°	100.38	+0.220	+0.0149	
1-15	9:30A	No	Access		63.51	5.43	53°	100.36	+0.200	+0.0136	
1-23	7:30A	"	"		63.10	5.02	49°	100.39	+0.230	+0.0156	
2-6	7:30A	"	"		63.45	5.37	52°	100.37	+0.210	+0.0143	
2-10	2:00P	"	"		Out of order			Out of order			
2-21	9:00A	"	"		"			"			
3-7	8:00A	"	"		"			"			
3-20	7:30A	"	"		"			"			
4-3	7:15A	"	"		"			"			
4-5	10:30A	"	"		"			"			
4-6	10:00A	"	"		"			"			
4-10	1:35P	"	"		"			"			
4-10	4:27P		Dynamite charge set off — at abutment								
4-10	4:35P	No	Access		Out of order			Out of order			
4-25	10:15A	"	"		"			"			
5-8	7:45A	"	"		"			"			
5-22	7:30A	"	"		"			"			
6-5	8:00A	"	"		"			"			
6-20	6:45A	"	"		"			"			
7-3	9:15A	"	"		"			"			

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-1L

Meter No. J-78

Sheet No.

New meter installed 11/18/76 and adjusted to equal reading of old meter at time of replacement.

Calibrations:

Calibration constant, corrected for leads .000622 **inches per 0.01% ratio change**

Resistance ratio at initial reading 102.46 **per cent** *

Resistance ratio, meter closed: 97.0 **per cent**

Resistance ratio, meter open: 105.1 **per cent**

Meter resistance at 0°F, corrected for leads 54.96 **ohms**

Change in temperature per ohm change in resistance 9.72 **°F**

* Adjusted resistance ratio after 7/21/76 (111.559)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
11/19/76	8:55 A	44°	86°	65°	60.76	5.80	56°	102.46	-9.099	-0.5660	1061.47
12-7-76	8:45 A	36°	82°	53°	59.74	4.78	46°	102.63	-8.929	-0.5554	1061.23
12-20-76	8:15 A	39°	78°	49°	59.74	4.78	46°	102.62	-8.939	-0.5560	1061.12
1-4-77	9:00 A	36°	74°	44°	58.95	3.99	39°	102.69	-8.869	-0.5517	1066.24
1-17-77	8:30 A	35°	73°	58°	60.18	5.22	51°	102.57	-8.989	-0.5591	1060.82
1-31-77	8:45 A	39°	77°	52°	59.69	4.73	46°	102.53	-9.029	-0.5616	1060.66
2-14-77	8:45 A	42°	86°	67°	60.83	5.87	57°	102.32	-9.239	-0.5747	1060.72
2-28-77	9:15 A	42°	88°	59°	60.05	5.09	49°	102.33	-9.229	-0.5740	1060.53
3-9-77	9:45 A	41°	77°	57°	60.07	5.11	50°	102.33	-9.229	-0.5740	1060.57
3-21-77	9:45 A	34°	70°	67°	60.30	5.34	52°	102.27	-9.289	-0.5778	1061.97
4-4-77	9:00 A	35°	79°	62°	60.22	5.26	51°	102.19	-9.369	-0.5828	1061.39
4-18-77	9:00 A	41°	86°	57°	60.35	5.39	52°	102.04	-9.519	-0.5921	1061.26
5-2-77	7:45 A	46°	84°	56°	60.24	5.28	51°	101.96	-9.599	-0.5971	1061.28
5-16-77	8:00 A	41°	73°	53°	59.74	4.78	46°	102.00	-9.559	-0.5946	1078.48
5-31-77	7:45 A	47°	84°	65°	61.24	6.28	61°	101.65	-9.909	-0.6163	1079.14
6-9-77	8:30 A	55°	92°	60°	61.09	6.13	60°	101.54	-10.019	-0.6232	1078.64
6-20-77	8:30 A	48°	82°	61°	60.95	5.99	58°	101.51	-10.049	-0.6250	1078.60
7-5-77	7:30 A	56°	90°	60°	61.25	6.29	61°	101.31	-10.249	-0.6375	1078.55
7-18-77	8:30 A	52°	96°	79°	62.21	7.25	70°	101.10	-10.459	-0.6505	1078.49
8-1-77	7:30 A	57°	102°	72°	62.33	7.37	72°	100.88	-10.679	-0.6642	1078.41
8-12-77	10:00 A	58°	76°	77°	61.95	6.99	68°	100.86	-10.699	-0.6655	1078.49
NOTE:	The above	reading	made due	to	earthquake	in	Sylmar @	1920 hr	8-11-77		
8-22-77	8:00 A	60°	100°	69°	61.81	6.85	67°	100.74	-10.819	-0.6729	1078.51
9-6-77	8:00 A	56°	99°	80°	62.37	7.41	72°	100.54	-11.019	-0.6854	1078.48
9-12-77	8:45 A	52°	100°	64°	61.04	6.08	59°	100.59	-10.969	-0.6823	1078.50
9-26-77	7:30 A	51°	84°	66°	61.70	6.74	66°	100.46	-11.099	-0.6904	1078.53

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2L

Meter No. M-3

Sheet No.

Original meter-cleaned & reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01% ratio change

Resistance ratio at initial reading 100.20 per cent *

Resistance ratio, meter closed: 98.6 per cent

Resistance ratio, meter open: 104.2 per cent

Meter resistance at 0°F, corrected for leads 49.67 ohms

Change in temperature per ohm change in resistance 10.95 °F

*Adjusted resistance ratio after 9-28-72 (100.06).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
11/19/76	8:55 A	44°	86°	65°	55.56	5.89	64°	100.06	0.000	0.0000	
12-7-76	8:45 A	36°	82°	53°	54.77	5.10	56°	100.09	+0.03	+0.0032	
12-20-76	8:15 A	39°	78°	49°	54.66	4.99	55°	100.09	+0.03	+0.0032	
1-4-77	9:00 A	36°	74°	44°	54.19	4.52	49°	100.13	+0.07	+0.0075	
1-17-77	8:30 A	35°	73°	58°	54.65	4.98	55°	100.14	+0.08	+0.0086	
1/31/77	8:45 A	39°	77°	52°	54.63	4.96	54°	100.12	+0.06	+0.0064	
2/14/77	8:45 A	42°	86°	67°	55.39	5.72	63°	100.11	+0.05	+0.0054	
2-28-77	9:15 A	42°	88°	59°	55.15	5.48	60°	100.11	~~+0.06~~ +0.05	~~+0.0064~~ +0.0054	
3-9-77	9:45 A	41°	77°	57°	55.23	5.56	61°	100.11	~~+0.06~~ +0.05	~~+0.0064~~ +0.0054	
3-21-77	9:45 A	34°	70°	67°	55.30	5.63	62°	100.11	~~+0.06~~ +0.05	~~+0.0064~~ +0.0054	
4-4-77	9:00 A	35°	79°	62°	55.21	5.54	61°	100.10	+0.04	+0.0043	
4-18-77	9:00 A	41°	86°	57°	55.37	5.70	62°	100.09	+0.03	+0.0032	
5-2-77	7:45 A	46°	84°	56°	55.37	5.70	62°	100.08	+0.02	+0.0021	
5-16-77	8:00 A	41°	73°	53°	54.66	4.99	55°	100.09	+0.03	+0.0032	
5-31-77	7:45 A	47°	84°	65°	55.71	6.04	66°	100.08	+0.02	+0.0021	
6-9-77	8:30 A	55°	92°	60°	55.75	6.08	67°	100.05	-0.01	-0.0011	
6-20-77	8:30 A	48°	82°	61°	55.65	5.98	65°	100.05	-0.01	-0.0011	
7-5-77	7:30 A	56°	90°	60°	55.98	6.31	69°	100.00	-0.06	-0.0064	
7-18-77	8:30 A	52°	96°	79°	56.59	6.92	76°	100.00	-0.06	-0.0064	
8-1-77	7:30 A	57°	102°	72°	56.79	7.12	78°	99.94	-0.12	-0.0129	
8-12-77	10:00 A	58°	76°	77°	56.60	6.93	76°	99.93	-0.13	-0.0139	
NOTE:	The above reading was made due to earthquake in Sylmar @ 1920 hr. 8-11-77										
8-22-77	8:00 A	60°	100°	69°	56.57	6.90	76°	99.92	-0.14	-0.0150	
9-6-77	8:00 A	56°	99°	80°	56.92	7.25	79°	99.90	-0.16	-0.0172	
9-12-77	8:46 A	52°	100°	64°	56.33	6.66	73°	99.86	-0.20	-0.0215	
9-26-77	7:30 A	51°	84°	66°	56.32	6.65	73°	99.90	-0.16	-0.0172	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2aL

New meter installed 10/21/76 and adjusted to equal reading of old meter at time of replacement.

Meter No. J-18

Sheet No.

Calibrations:

Calibration constant, corrected for leads .000647 **inches per 0.01% ratio change**

Resistance ratio at initial reading 100.19 **per cent** *

Resistance ratio, meter closed: 96.2 **per cent**

Resistance ratio, meter open: 104.0 **per cent**

Meter resistance at 0°F, corrected for leads 55.35 **ohms**

Change in temperature per ohm change in resistance 9.49 **°F**

* Adjusted resistance ratio after 9/28/72 (99.88)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
10-25-76	8:00 A	47°	94°	60°	62.21	6.86	65°	100.18	+0.30	+0.0194	
11-8-76	9:00 A	47°	95°	69°	62.68	7.33	70°	100.20	+0.32	+0.0207	
11-19-76	8:55 A	44°	86°	65°	62.33	6.98	66°	100.19	+0.31	+0.0201	
12-7-76	8:45 A	36°	82°	53°	61.51	6.16	58°	100.19	+0.31	+0.0201	
12-20-76	8:15 A	39°	78°	49°	61.40	6.05	57°	100.18	+0.30	+0.0194	
1-4-77	9:00 A	36°	74°	44°	60.77	5.42	51°	100.16	+0.28	+0.0181	
1-17-77	8:30 A	35°	73°	58°	61.17	5.82	55°	100.16	+0.28	+0.0181	
1-31-77	8:45 A	39°	77°	52°	61.30	5.95	56°	100.16	+0.28	+0.0181	
2-14-77	8:45 A	42°	86°	67°	62.14	6.79	64°	100.17	+0.29	+0.0188	
2-28-77	9:15 A	42°	88°	59°	61.89	6.54	62°	100.18	+0.30	+0.0194	
3-9-77	9:45 A	41°	77°	57°	61.95	6.60	63°	100.18	+0.30	+0.0194	
3-21-77	9:45 A	34°	70°	67°	61.89	6.54	62°	100.20	+0.32	+0.0207	
4-4-77	9:00 A	35°	79°	62°	61.79	6.44	61°	100.19	+0.31	+0.0201	
4-18-77	9:00 A	41°	86°	57°	62.09	6.74	64°	100.20	+0.32	+0.0207	
5-2-77	7:45 A	46°	84°	56°	62.08	6.73	64°	100.24	+0.36	+0.0233	
5-16-77	8:00 A	41°	73°	53°	61.26	5.91	56°	100.26	+0.38	+0.0246	
5-31-77	7:45 A	47°	84°	65°	62.32	6.97	66°	100.26	+0.38	+0.0246	
6-9-77	8:30 A	55°	92°	60°	62.42	7.07	67°	100.26	+0.38	+0.0246	
6-20-77	8:30 A	48°	82°	61°	62.37	7.02	67°	100.27	+0.39	+0.0252	
7-5-77	7:30 A	56°	90°	60°	62.76	7.41	70°	100.27	+0.39	+0.0252	
7-18-77	8:30 A	52°	96°	79°	63.34	7.99	76°	100.29	+0.41	+0.0265	
8-1-77	7:30 A	57°	102°	72°	63.62	8.27	78°	100.29	+0.41	+0.0265	
8-12-77	10:00 A	58°	76°	77°	63.40	8.05	76°	100.29	+0.41	+0.0265	
NOTE:	The	above	reading	was	made	due to	earthquake	in Sylmar	@1920	hr. 8-11-77	
8-22-77	8:00 A	60°	100°	69°	63.39	8.04	76°	100.29	+0.41	+0.0265	
9-6-77	8:00 A	56°	99°	80°	63.78	8.43	80°	100.29	+0.41	+0.0265	
9-12-77	8:45 A	52°	100	64°	63.15	7.80	74°	100.28	+0.40	+0.0259	
9-26-77	7:30 A	51°	84°	66°	63.12	7.77	74°	100.28	+0.40	+0.0259	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-3L

Meter No. J-14

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000681 inches per 0.01% ratio change

Resistance ratio at initial reading 100.14 per cent *

Resistance ratio, meter closed: 95.2 per cent

Resistance ratio, meter open: 102.9 per cent

Meter resistance at 0°F, corrected for leads 56.75 ohms

Change in temperature per ohm change in resistance 9.61 °F

*Adjusted resistance ratio after 9-28-72 (98.231).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
11/19/76	8:55A	44°	86°	65°	63.12	6.37	61°	100.56	+2.329	+0.1586	
12-7-76	8:45A	36°	82°	53°	62.41	5.66	54°	100.57	+2.339	+0.1593	
12-20-76	8:15A	39°	78°	49°	62.14	5.39	52°	100.58	+2.349	+0.1600	
1-4-77	9:00 A	36°	74°	44°	61.96	5.21	50°	100.59	+2.359	+0.1606	
1-17-77	8:30 A	35°	73°	58°	61.91	5.16	50°	100.61	+2.379	+0.1620	
1-31-77	8:45 A	39°	77°	52°	62.09	5.34	51°	100.61	+2.379	+0.1620	
2-14-77	8:45 A	42°	86°	67°	62.30	5.55	53°	100.61	+2.379	+0.1620	
2-28-77	9:15 A	42°	88°	59°	62.41	5.66	54°	100.62	+2.389	+0.1627	
3-9-77	9:45 A	41°	77°	57°	62.41	5.66	54°	100.63	+2.399	+0.1634	
3-21-77	9:45 A	34°	70°	67°	62.45	5.70	55°	100.62	+2.389	+0.1627	
4-4-77	9:00 A	35°	79°	62°	62.62	5.87	56°	100.62	+2.389	+0.1627	
4-18-77	9:00 A	41°	86°	57°	63.17	6.42	62°	100.61	+2.379	+0.1620	
5-2-77	7:45 A	46°	84°	56°	63.31	6.56	63°	100.61	+2.379	+0.1620	
5-16-77	8:00 A	41°	73°	53°	62.45	5.70	55°	100.59	+2.359	+0.1606	
5-31-77	7:45 A	47°	84°	65°	62.70	5.95	57°	100.57	+2.339	+0.1593	
6-9-77	8:30 A	56°	92°	60°	63.06	6.31	61°	100.56	+2.329	+0.1586	
6-20-77	8:30 A	48°	82°	61°	63.47	6.72	65°	100.57	+2.339	+0.1593	
7-5-77	7:30 A	56°	90°	60°	63.79	7.04	68°	100.53	+2.299	+0.1566	
7-18-77	8:30 A	52°	96°	79°	64.10	7.35	71°	100.54	+2.309	+0.1572	
8-1-77	7:30 A	57°	102°	72°	64.29	7.54	72°	100.51	+2.279	+0.1552	
8-12-77	10:00 A	58°	76°	77°	64.36	7.61	73°	100.51	+2.279	+0.1552	
NOTE:	The above reading was made due to earthquake in Sylmar @ 1920 hr 8-11-77										
8-22-77	8:00A	60°	100°	69°	64.32	7.57	73°	100.51	+2.279	+0.1552	
9-6-77	8:00 A	56°	99°	80°	64.06	7.31	70°	100.50	+2.269	+0.1545	
9-12-77	8:45 A	52°	100°	64°	64.02	7.27	70°	100.50	+2.269	+0.1545	
9-26-77	7:30 A	51°	84°	66°	63.90	7.15	69°	100.51	+2.279	+0.1552	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH - 1R

Meter No. M - 6

Sheet No.

Leads extended 2-26-75

Calibrations:

Calibration constant, corrected for leads .001216 inches per 0.01% ratio change

Resistance ratio at initial reading 100.57 per cent*

Resistance ratio, meter closed: 98.0 per cent

Resistance ratio, meter open: 103.6 per cent

Meter resistance at 0°F, corrected for leads 52.19 ohms

Change in temperature per ohm change in resistance 10.88 °F

*Adjusted resistance ratio after 2-26-75 (100.723)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
11/19/76	8:55 A	45°	77°	63°	57.92	5.73	62°	100.26	-0.463	-0.0563	1061.47
12-7-76	8:45 A	37°	74°	52°	57.00	4.81	52°	100.31	-0.413	-0.0502	1061.23
12-20-76	8:15 A	41°	70°	48°	56.86	4.67	51°	100.32	-0.403	-0.0490	1061.12
1-4-77	9:00 A	37°	67°	43°	56.47	4.28	47°	100.33	-0.393	-0.0479	1066.24
1-17-77	8:30 A	36°	66°	62°	57.37	5.18	56°	100.38	-0.343	-0.0417	1060.82
1-31-77	8:45 A	41°	68°	53°	56.96	4.77	52°	100.39	-0.333	-0.0405	1060.66
2-14-77	8:45 A	42°	72°	66°	57.86	5.67	62°	100.36	-0.363	-0.0441	1060.72
2-28-77	9:15 A	42°	79°	56°	57.31	5.12	56°	100.36	-0.363	-0.0441	1060.53
3-9-77	9:45 A	42°	73°	56°	57.28	5.09	55°	100.35	-0.373	-0.0454	1060.57
3-21-77	9:45 A	35°	65°	65°	57.58	5.39	59°	100.35	-0.373	-0.0454	1061.97
4-4-77	9:00 A	35°	75°	61°	57.42	5.23	57°	100.34	-0.383	-0.0466	1061.39
4-18-77	9:00 A	42°	83°	58°	57.52	5.33	58°	100.28	-0.443	-0.0539	1061.26
5-2-77	7:45 A	48°	82°	59°	57.58	5.39	59°	100.22	-0.503	-0.0612	1061.28
5-16-77	8:00 A	40°	71°	57°	57.31	5.12	56°	100.22	-0.503	-0.0612	1078.48
5-31-77	7:45 A	48°	81°	71°	58.27	6.08	66	100.19	-0.533	-0.0648	1079.14
6-9-77	9:30 A	56°	89°	60°	58.03	5.84	64°	100.16	-0.563	-0.0685	1078.64
6-20-77	8:30 A	49°	81°	63°	58.08	5.89	64°	100.13	-0.593	-0.0721	1078.60
7-5-77	7:30 A	57°	88°	64°	58.27	6.08	66°	100.04	-0.683	-0.0831	1078.55
7-18-77	8:30 A	52°	94°	79°	59.08	6.89	75°	99.96	-0.763	-0.0928	1078.49
8-1-77	7:30 A	58°	101°	77°	59.29	7.10	77°	99.88	-0.843	-0.1025	1078.41
8-12-77	10:00 A	58°	92°	78°	59.09	6.90	75°	99.86	-0.863	-0.1049	1078.49
NOTE:	The	above	reading	was	made due	to earthquake		in Sylmar	@ 1920 hr	8-11-77	
8-22-77	8:00 A	62°	98°	70°	58.83	6.64	72°	99.85	-0.873	-0.1062	1078.51
9-6-77	8:00 A	57°	95°	80°	59.24	7.05	77°	99.83	-0.893	-0.1086	1078.48
9-12-77	8:45 A	53°	97°	65°	58.28	6.09	66°	99.83	-0.893	-0.1086	1078.50
9-26-77	7:30 A	51°	80°	67°	58.56	6.37	69°	99.84	-0.883	-0.1074	1078.53

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Leads extended 2-26-75

Drill-hole No DH - 2R

Meter No. M - 1

Sheet No.

Calibrations:

Calibration constant, corrected for leads .001202 inches per 0.01% ratio change

Resistance ratio at initial reading 100.00 per cent *

Resistance ratio, meter closed: 97.9 per cent

Resistance ratio, meter open: 103.0 per cent

Meter resistance at 0°F, corrected for leads 52.73 ohms

Change in temperature per ohm change in resistance 10.95 °F

*Adjusted resistance ratio after 2-26-75 (99.828)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
11/19/76	8:55 A	45°	77°	63°	58.17	5.44	60°	100.09	+0.262	+0.0315	
12-7-76	8:45 A	37°	74°	52°	57.33	4.60	50°	100.11	+0.282	+0.0339	
12-20-76	8:15 A	41°	70°	48°	57.20	4.47	49°	100.11	+0.282	+0.0339	
1-4-77	9:00 A	37°	67°	43°	56.82	4.09	45°	100.11	+0.282	+0.0339	
1-17-77	8:30 A	36°	66°	62°	57.63	4.90	54°	100.11	+0.282	+0.0339	
1-31-77	8:45 A	41°	68°	53°	57.26	4.53	50°	100.11	+0.282	+0.0339	
2-14-77	8:45 A	42°	72°	66°	58.11	5.38	59°	100.08	+0.252	+0.0303	
2-28-77	9:15 A	42°	79°	56°	57.62	4.89	54°	100.11	+0.282	+0.0339	
3-9-77	9:45 A	42°	73°	56°	57.59	4.86	53°	100.11	+0.282	+0.0339	
3-21-77	9:45 A	35°	65°	65°	57.86	5.13	56°	100.11	+0.282	+0.0339	
4-4-77	9:00 A	35°	75°	61°	57.73	5.00	55°	100.12	+0.292	+0.0351	
4-18-77	9:00 A	42°	83°	58°	57.81	5.08	56°	100.10	+0.272	+0.0327	
5-2-77	7:45 A	48°	82°	59°	57.88	5.15	56°	100.10	+0.272	+0.0327	
5-16-77	8:00 A	40°	71°	57°	57.61	4.88	53°	100.07	+0.242	+0.0291	
5-31-77	7:45 A	48°	81°	71°	58.45	5.72	63°	100.04	+0.212	+0.0255	
6-9-77	9:30 A	56°	89°	60°	58.25	5.52	60°	100.03	+0.202	+0.0243	
6-20-77	8:30 A	49°	81°	63°	58.29	5.56	61°	100.04	+0.212	+0.0255	
7-5-77	7:30 A	57°	88°	64°	58.50	5.77	63°	100.02	+0.192	+0.0231	
7-18-77	8:30 A	52°	94°	79°	59.20	6.47	71°	100.01	+0.182	+0.0219	
8-1-77	7:30 A	58°	101°	77°	59.38	6.65	73°	100.01	+0.182	+0.0219	
8-12-77	10:00 A	58°	92°	78°	59.22	6.49	71°	100.02	+0.192	+0.0231	
NOTE	The	above	reading	was made	due earthquake in Sylmar @ 1920 hr. 8-11-77						
8-22-77	8:00 A	62°	98°	70°	59.02	6.29	69°	100.03	+0.202	+0.0243	
9-6-77	8:00 A	57°	95°	80°	59.39	6.67	73°	100.03	+0.202	+0.0243	
9-12-77	8:45 A	53°	97°	65°	58.52	5.79	63°	100.05	+0.222	+0.0267	
9-26-77	7:30 A	51°	80°	67°	58.70	5.97	65°	100.06	+0.232	+0.0279	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

New meter installed 11/17/76 and adjusted to equal reading of old meter at time of replacement.

Drill-hole No DH-2aR

Meter No. J-79

Sheet No.

Calibrations:

Calibration constant, corrected for leads .000690 **inches per 0.01% ratio change**

Resistance ratio at initial reading 100.40 **per cent** *

Resistance ratio, meter closed: 96.4 **per cent**

Resistance ratio, meter open: 104.0 **per cent**

Meter resistance at 0°F, corrected for leads 57.46 **ohms**

Change in temperature per ohm change in resistance 9.72 **°F**

* Adjusted resistance ratio after 2/26/75 (99.827)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
11/19/76	8:55 A	45°	77°	63°	63.60	6.14	60°	100.40	+0.573	+0.0395	
12-7-76	8:45 A	37°	74°	52°	62.73	5.27	51°	100.40	+0.573	+0.0395	
12-20-76	8:15 A	41°	70°	48°	62.63	5.17	50°	100.40	+0.573	+0.0395	
1-4-77	9:00 A	37°	67°	43°	62.69	5.23	51°	100.42	+0.593	+0.0409	
1-17-77	8:30 A	36°	66°	62°	62.87	5.41	53°	100.43	+0.603	+0.0416	
1-31-77	8:45 A	41°	68°	53°	62.62	5.16	50°	100.42	+0.593	+0.0409	
2-14-77	8:45 A	42°	72°	66°	63.41	5.95	58°	100.42	+0.593	+0.0409	
2-28-77	9:15 A	42°	79°	56°	62.94	5.48	53°	100.43	+0.603	+0.0416	
3-9-77	9:45 A	42°	73°	56°	62.91	5.45	53°	100.43	+0.603	+0.0416	
3-21-77	9:45 A	35°	65°	65°	63.00	5.54	54°	100.43	+0.603	+0.0416	
4-4-77	9:00 A	35°	75°	61°	62.94	5.48	53°	100.43	+0.603	+0.0416	
4-18-77	9:00 A	42°	83°	58°	63.20	5.74	56°	100.43	+0.603	+0.0416	
5-2-77	7:45 A	48°	82°	57°	63.29	~~6.00~~ 5.43	~~59°~~ 57°	100.42	+0.593	+0.0409	
5-16-77	8:00 A	40°	71°	57°	63.41	5.95	58°	100.43	+0.603	+0.0416	
5-31-77	7:45 A	48°	81°	71°	63.73	6.27	61°	100.42	+0.593	+0.0409	
6-9-77	9:30 A	56°	89°	60°	63.74	6.28	61°	100.43	+0.603	+0.0416	
6-20-77	8:30 A	49°	81°	63°	63.78	6.32	61°	100.43	+0.603	+0.0416	
7-5-77	7:30 A	57°	88°	64°	64.00	6.54	64°	100.42	+0.593	+0.0409	
7-18-77	8:30 A	52°	94°	79°	64.34	6.88	67°	100.42	+0.593	+0.0409	
8-1-77	7:30 A	58°	101°	77°	64.56	7.10	69°	100.43	+0.603	+0.0416	
8-12-77	10:00 A	58°	92°	78°	64.43	6.97	68°	100.43	+0.603	+0.0416	
NOTE: The above reading was made due to earthquake in Sylmar @ 1920 hr. 8-11-77											
8-22-77	8:00 A	62°	98°	70°	64.48	7.02	68°	100.45	+0.623	+0.0430	
9-6-77	8:00 A	57°	95°	80°	64.58	7.12	69°	100.45	+0.623	+0.0430	
9-12-77	8:45 A	53°	97°	65°	64.24	6.78	66°	100.45	+0.623	+0.0430	
9-26-77	7:30 A	51°	80°	67°	64.19	6.73	65°	100.47	+0.643	+0.0444	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

New meter installed 11/17/76 and adjusted to equal reading of old meter at time of replacement. (10-28-76)

Drill-hole No DH-3R

Meter No. J-77

Sheet No.

Calibrations:

Calibration constant, corrected for leads .000679 **inches per 0.01% ratio change**

Resistance ratio at initial reading 100.44 **per cent** *

Resistance ratio, meter closed: 95.8 **per cent**

Resistance ratio, meter open: 103.7 **per cent**

Meter resistance at 0°F, corrected for leads 58.08 **ohms**

Change in temperature per ohm change in resistance 9.77 **°F**

* Adjusted resistance ratio after 2/26/75 (100.16)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
11/19/76	8:55A	45°	77°	63°	64.21	6.13	60°	100.44	+0.28	+0.0190	
12-7-76	8:45A	37°	74°	52°	63.27	5.19	51°	100.56	+0.40	+0.0272	
12-20-76	8:15 A	41°	70°	48°	63.16	5.08	50°	100.57	+0.41	+0.0278	
1-4-77	9:00 A	37°	67°	43°	~~63.98~~ 63.98	~~4.90~~ 4.90	~~48~~	100.59	+0.43	+0.0292	
1-17-77	8:30 A	36°	66°	62°	63.26	5.17	51°	100.63	+0.47	+0.0319	
1-31-77	8:45 A	41°	68°	53°	63.23	5.15	50°	100.62	+0.46	+0.0312	
2-14-77	8:45 A	42°	72°	66°	63.86	5.78	56°	100.59	+0.43	+0.0292	
2-28-77	9:15 A	42°	79°	56°	63.60	5.52	54°	100.58	+0.42	+0.0285	
3-9-77	9:45 A	42°	73°	56°	63.55	5.47	53°	100.59	+0.43	+0.0292	
3-21-77	9:45 A	35°	65°	65°	63.66	5.58	55°	100.60	+0.44	+0.0299 ~~+0.0278~~	
4-4-77	9:00 A	35°	75°	61°	63.63	5.55	54	100.60	+0.44	+0.0299	
4-18-77	9:00 A	42°	83°	58°	63.92	5.84	57°	100.55	+0.39	+0.0265	
5-2-77	7:45 A	48°	82°	59°	64.03	5.95	58°	100.51	+0.35	+0.0238	
5-16-77	8:00 A	40°	71°	57°	63.81	5.73	56°	100.47	+0.31	+0.0210	
5-31-77	7:45 A	48°	81°	71°	6439	6.31	62°	100.39	+0.23	+0.0156	
6-9-77	9:30 A	56°	89°	60°	64.40	6.32	62°	100.34	+0.18	+0.0122	
6-20-77	8:30 A	49°	81°	63°	64.44	6.36	67°	100.30	+0.14	+0.0095	
7-5-77	7:30 A	57°	88°	64°	64.76	6.68	65°	100.27	+0.11	+0.0075	
7-18-77	8:30 A	52°	94°	79°	65.31	7.23	71°	100.25	+0.09	+0.0061	
8-1-77	7:30 A	58°	101°	77°	65.53	7.45	73°	100.22	+0.06	+0.0041	
8-12-77	10:00 A	58°	92°	78°	65.34	7.26	71°	100.24	+0.08	+0.0054	
NOTE: The above reading was made due to earthquake in Sylmar @ 1920 hr. 8-11-77											
8-22-77	8:00 A	62°	98°	70°	65.31	7.23	71°	100.21	+0.05	+0.0034	
9-6-77	8:00 A	57°	95°	80°	65.41	7.33	72°	100.22	+0.06	+0.0041	
9-12-77	8:45 A	53°	97°	65°	64.83	6.75	66°	100.24	+0.08	+0.0054	
9-26-77	7:30 A	51°	80°	67°	64.89	6.81	67°	100.29	+0.13	+0.0088	

MLH

WCM

WCM

WCM

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH - 1L

Meter No. J - 12

Sheet No.

New Meter installed 9-28-72

Calibrations:

Calibration constant, corrected for leads .000642 inches per 0.01% ratio change

Resistance ratio at initial reading 100.06 per cent*

Resistance ratio, meter closed: 95.8 per cent

Resistance ratio, meter open: 103.7 per cent

Meter resistance at 0°F, corrected for leads 55.05 ohms

Change in temperature per ohm change in resistance 9.61 °F

*Adjusted resistance ratio after 9-28-72 (103.409)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms.	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-19-76	8:45A	38°	86°	68°	61.57	6.52	63°	* 96.12	-7.289	-0.4680	1060.11
2-2-76	8:45A	38°	86°	56°	60.65	5.60	54°	* 96.12	-7.289	-0.4680	1060.31
2-10-76	7:30A	35°	79°	48°	59.89	4.84	47°	* 96.11	-7.299	-0.4686	1086.03
2-23-76	8:45A	38°	74°	57°	60.07	5.02	48°	* 96.13	-7.279	-0.4673	1060.78
3-8-76	8:45A	32°	80°	45°	59.90	4.85	47°	* 96.11	-7.299	-0.4686	1062.30
3-23-76	7:15A	39°	82°	54°	61.10	6.05	58°	* 96.08	-7.329	-0.4705	1061.54
4-5-76	8:30A	37°	76°	45°	59.34	4.29	41°	* 96.11	-7.299	-0.4686	1061.21
4-8-76	11:00 A	40°	67°	54°	60.68	5.63	54°	* 96.12	-7.289	-0.4680	1061.42
4-19-76	9:00 A	38°	70°	65°	60.71	5.66	54°	* 96.10	-7.309	-0.4692	1061.18
5-3-76	8:15 A	42°	89°	57°	61.39	6.34	61°	* 96.03	-7.379	-0.4737	1060.44
5-17-76	8:00 A	44°	98°	55°	60.75	5.70	55°	* 96.06	-7.349	-0.4718	1060.37
6-1-76	7:30 A	46°	79°	73°	62.00	6.95	67°	* 96.06	-7.349	-0.4718	1060.33
6-14-76	7:30 A	47°	86°	68°	61.77	6.72	65°	* 96.06	-7.349	-0.4718	1060.29
6-28-76	6:15A	51°	104°	73°	62.97	7.92	76°	* 96.03	-7.379	-0.4737	1060.02
7-12-76	7:45A	52°	102°	62°	61.77	6.72	65°	* 96.09	-7.319	-0.4699	1059.67

ABUTMENT YIELD MEASUREMENT DATA

Project MATILJA DAM

Drill-hole No DH-1L

Meter No. J-17

Sheet No.

New meter installed 7/23/76

Calibrations:

Calibration constant, corrected for leads .000653 inches per 0.01% ratio change

Resistance ratio at initial reading 102.60 per cent*

Resistance ratio, meter closed: 96.3 per cent

Resistance ratio, meter open: 104.2 per cent

Meter resistance at 0°F, corrected for leads 55.70 ohms

Change in temperature per ohm change in resistance 9.51 °F

* Adjusted resistance ratio at initial reading after 7/21/76 (111.559)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7-26-76	8:00 A	54°	92°	75°	63.09	7.39	70°	102.60	-8.959	-0.5850	1060.00
8-9-76	8:30 A	50°	90°	69°	62.49	6.79	65°	102.55	-9.009	-0.5883	1059.98
8-23-76	9:00 A	54°	83°	76°	62.65	6.95	66°	102.53	-9.029	-0.5896	1060.19
9-3-76	8:00 A	59°	104°	71°	63.31	7.61	72°	102.24	-9.319	-0.6085	1060.23
9-14-76	8:00 A	51°	95°	61°	62.19	6.49	62°	102.37	-9.189	-0.6000	1060.98
9-27-76	7:30 A	52°	79°	62°	62.25	6.55	62°	102.36	-9.199	-0.6007	1060.84
10-11-76	8:15 A	52°	96°	68°	62.38	6.68	64°	102.24	-9.319	-0.6085	1061.50
10-25-76	8:00 A	47°	94°	60°	61.26	5.56	53°	102.46	-9.099	-0.5942	1061.26
11-8-76	9:00 A	47°	95°	69°	62.06	6.36	60°	102.36	-9.199	-0.6007	1061.05

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2L

Meter No. M-3

Sheet No.

Original meter-cleaned & reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01% ratio change

Resistance ratio at initial reading 100.20 per cent *

Resistance ratio, meter closed: 98.6 per cent

Resistance ratio, meter open: 104.2 per cent

Meter resistance at 0°F, corrected for leads 49.67 ohms

Change in temperature per ohm change in resistance 10.95 °F

*Adjusted resistance ratio after 9-28-72 (100.06).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-19-76	8:45 A	38°	86°	68°	55.45	5.78	63°	100.16	+0.10	+0.0107	
2-2-76	8:45 A	38°	86°	56°	55.21	5.54	61°	100.14	+0.08	+0.0086	
2-10-76	7:30 A	35°	79°	48°	54.37	4.70	51°	100.16	+0.10	+0.0107	
2-23-76	8:45 A	38°	74°	57°	54.91	5.24	57°	100.16	+0.10	+0.0107	
3-8-76	8:45 A	32°	80°	45°	54.75	5.08	56°	100.16	+0.10	+0.0107	
3-23-76	7:15 A	39°	82°	54°	55.64	5.97	65°	100.13	+0.07	+0.0075	
4-5-76	8:30 A	37°	76°	45°	54.63	4.96	54°	100.14	+0.08	+0.0086	
4-8-76	11:00 A	40°	67°	54°	55.04	5.37	59°	100.15	+0.09	+0.0097	
4-19-76	9:00 A	38°	70°	65°	55.30	5.63	62°	100.15	+0.09	+0.0097	
5-3-76	8:15 A	42°	89°	57°	55.87	6.20	68°	100.11	+0.05	+0.0054	
5-17-76	8:00 A	44°	98°	55°	55.70	6.03	66°	100.07	+0.01	+0.0011	
6-1-76	7:30 A	46°	79°	73°	56.08	6.41	70°	100.11	+0.05	+0.0054	
6-14-76	7:30 A	47°	86°	68°	56.07	6.40	70°	100.10	+0.04	+0.0043	
6-28-76	6:15 A	51°	104°	73°	57.05	7.38	81°	100.04	-0.02	-0.0021	
7-12-76	7:45 A	52°	102°	62°	56.39	6.72	74°	100.00	-0.06	-0.0064	
7-26-76	8:00 A	54°	92°	75°	56.65	6.98	76°	100.03	-0.03	-0.0032	
8-9-76	8:30 A	50°	90°	69°	56.46	6.79	74°	100.00	-0.06	-0.0064	
8-23-76	9:00 A	54°	83°	76°	56.49	6.83	75°	100.01	-0.05	-0.0054	
9-3-76	8:00 A	59°	104°	71°	56.90	7.23	79°	99.96	-0.10	-0.0107	
9-14-76	8:00 A	51°	95°	61°	56.17	6.50	71°	99.97	-0.09	-0.0097	
9-27-76	7:30 A	52°	79°	62°	55.96	6.29	69°	99.99	-0.07	-0.0075	
10-11-76	8:15 A	52°	96°	68°	56.38	6.71	73°	99.98	-0.08	-0.0086	
10-25-76	8:00 A	47°	94°	60°	55.44	5.77	63°	100.04	-0.02	-0.0021	
11-8-76	9:00 A	47°	95°	69°	55.85	6.18	68°	100.04	-0.02	-0.0021	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2aL

Meter No. J-13

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads 000627 inches per 0.01% ratio change

Resistance ratio at initial reading 100.04 per cent *

Resistance ratio, meter closed: 96.0 per cent

Resistance ratio, meter open: 104.0 per cent

Meter resistance at 0°F, corrected for leads 54.84 ohms

Change in temperature per ohm change in resistance 9.56 °F

*Adjusted resistance ratio after 9-28-72 (99.88).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-19-76	8:45A	38°	86°	68°	61.56	6.72	64°	100.14	+0.26	+0.0163	
2-2-76	8:45A	38°	86°	56°	61.45	6.61	63°	100.13	+0.25	+0.0157	
2-10-76	7:30A	35°	79°	48°	60.38	5.54	53°	100.13	+0.25	+0.0157	
2-23-76	8:45A	38°	74°	57°	61.04	6.20	59°	100.14	+0.26	+0.0163	
3-8-76	8:45A	32°	80°	45°	60.77	5.93	57°	100.14	+0.26	+0.0163	
3-23-76	7:15A	39°	82°	54°	61.86	7.02	67°	100.14	+0.26	+0.0163	
4-5-76	8:30A	37°	76°	45°	60.80	5.96	57°	100.14	+0.26	+0.0163	
4-8-76	11:00 A	40°	67°	54°	61.12	6.28	60°	100.15	+0.27	+0.0169	
4-19-76	9:00 A	38°	70°	65°	61.38	6.54	63°	100.15	+0.27	+0.0169	
5-3-76	8:15 A	42°	89°	57°	62.04	7.20	69°	100.15	+0.27	+0.0169	
5-17-76	8:00 A	44°	98°	55°	61.96	7.12	68°	100.14	+0.26	+0.0163	
6-1-76	7:30 A	46°	79°	73°	62.19	7.35	70°	100.15	+0.27	+0.0169	
6-14-76	7:30 A	47°	86°	68°	62.21	7.37	70°	100.15	+0.27	+0.0169	
6-28-76	6:15 A	51°	104°	73°	63.31	8.47	81°	100.15	+0.27	+0.0169	
7-12-76	7:45 A	52°	102°	62°	62.66	7.82	75°	100.14	+0.26	+0.0163	
7-26-76	8:00 A	54°	92°	75°	62.88	8.04	77°	100.15	+0.27	+0.0169	
8-9-76	8:30 A	50°	90°	69°	62.74	7.90	76°	100.15	+0.27	+0.0169	
8-23-76	9:00 A	64°	83°	76°	62.69	7.85	75°	100.17	+0.29	+0.0182	
9-3-76	8:00 A	59°	104°	71°	63.21	8.37	80°	100.16	+0.28	+0.0176	
9-14-76	8:00 A	51°	95°	61°	62.40	7.56	72°	100.16	+0.28	+0.0176	
9-27-76	7:30 A	52°	79°	62°	62.17	7.33	70°	100.17	+0.29	+0.0182	
10-11-76	8:15 A	52°	96°	68°	62.67	7.83	75°	100.19	+0.31	+0.0194	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-3L
Meter No. J-14
Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000681 inches per 0.01% ratio change
Resistance ratio at initial reading 100.14 per cent *
Resistance ratio, meter closed: 95.2 per cent
Resistance ratio, meter open: 102.9 per cent
Meter resistance at 0°F, corrected for leads 56.75 ohms
Change in temperature per ohm change in resistance 9.61 °F
*Adjusted resistance ratio after 9-28-72 (98.231).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-19-76	8:45A	38°	86°	68°	61.91	5.16	50°	100.38	+2.149	+0.1463	
2-2-76	8:45A	38°	86°	56°	62.04	5.29	51°	100.38	+2.149	+0.1463	
2-10-76	7:30A	35°	79°	48°	61.80	5.05	49°	100.33	+2.099	+0.1429	
2-23-76	8:45A	38°	74°	57°	62.11	5.36	52°	100.39	+2.159	+0.1470	
3-8-76	8:45A	32°	80°	45°	62.18	5.43	52°	100.39	+2.159	+0.1470	
-23-76	7:15A	39°	82°	54°	62.61	5.86	56°	100.39	+2.159	+0.1470	
4-5-76	8:30A	37°	76°	45°	62.54	5.79	56°	100.40	+2.169	+0.1477	
4-8-76	11:00A	40°	67°	54°	62.64	5.89	57°	100.40	+2.169	+0.1477	
4-19-76	9:00A	38°	70°	65°	62.69	5.94	57°	100.41	+2.179	+0.1484	
5-3-76	8:15A	42°	89°	57°	63.25	6.50	62°	100.41	+2.179	+0.1484	
5-17-76	8:00A	44°	98°	55°	63.67	6.92	66°	100.42	+2.189	+0.1491	
6-1-76	7:30A	46°	79°	78°	63.71	6.96	67°	100.44	+2.209	+0.1504	
6-14-76	7:30A	47°	86°	68°	63.80	7.05	68°	100.45	+2.219	+0.1511	
6-28-76	6:15A	51°	104°	73°	64.32	7.57	73°	100.46	+2.229	+0.1518	
7-12-76	7:45A	52°	102°	62°	64.44	7.69	74°	100.47	+2.239	+0.1525	
7-26-76	8:00A	54°	92°	75°	64.45	7.70	74°	100.49	+2.259	+0.1538	
8-9-76	8:30A	50°	90°	69°	64.29	7.54	72°	100.49	+2.259	+0.1538	
8-23-76	9:00A	54°	83°	76°	63.69	6.94	67°	100.51	+2.279	+0.1552	
9-3-76	8:00A	59°	104°	71°	63.96	7.21	69°	100.54	+2.309	+0.1572	
9-14-76	8:00A	51°	95°	61°	63.97	7.22	69°	100.52	+2.289	+0.1559	
9-27-76	7:30A	52°	79°	62°	63.81	7.06	68°	100.53	+2.299	+0.1566	
10-11-76	8:15A	52°	96°	68°	63.48	6.73	65°	100.55	+2.319	+0.1579	
10-25-76	8:00A	47°	94°	60°	63.19	6.44	62°	100.56	+2.329	+0.1586	
11-8-76	9:00A	47°	95°	69°	63.33	6.58	63°	100.56	+2.329	+0.1586	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Leads extended 2-26-75

Drill-hole No DH - 1R

Meter No. M - 6

Sheet No.

Calibrations:

Calibration constant, corrected for leads .001216 inches per 0.01% ratio change

Resistance ratio at initial reading 100.57 per cent *

Resistance ratio, meter closed: 98.0 per cent

Resistance ratio, meter open: 103.6 per cent

Meter resistance at 0°F, corrected for leads 52.19 ohms

Change in temperature per ohm change in resistance 10.88 °F

* Adjusted resistance ratio after 2-26-75 (100.723)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-19-76	8:45A	39°	80°	67°	58.21	6.02	65°	100.20	-0.523	-0.0636	1060.11
2-2-76	8:45A	39°	80°	55°	57.47	5.28	57°	100.18	-0.543	-0.0660	1060.31
2-10-76	7:30A	36°	73°	46°	56.82	4.63	50°	100.16	-0.563	-0.0685	1086.03
2-23-76	8:45A	42°	67°	53°	57.10	4.91	53°	100.28	-0.443	-0.0539	1060.78
3-8-76	8:45A	34°	74°	47°	56.70	4.51	49°	100.36	-0.363	-0.0441	1062.30
3-23-76	7:15A	40°	77°	55°	57.63	5.44	59°	100.34	-0.383	-0.0466	1061.54
4-5-76	8:30A	38°	72°	48°	56.70	4.51	49°	100.38	-0.343	-0.0417	1061.21
4-8-76	11:00A	42°	62°	53°	57.22	5.03	55°	100.38	-0.343	-0.0417	1061.42
4-19-76	9:00A	39°	65°	66°	57.66	5.47	60°	100.38	-0.343	-0.0417	1061.18
5-3-76	8:15A	44°	85°	57°	57.86	5.67	62°	100.29	-0.433	-0.0527	1060.44
5-17-76	8:00A	47°	95°	59°	57.74	5.55	60°	100.24	-0.483	-0.0587	1060.37
6-1-76	7:30A	48°	77°	75°	58.82	6.63	72°	100.20	-0.523	-0.0636	1060.33
6-14-76	7:30A	50°	82°	72°	58.54	6.35	69°	100.15	-0.573	-0.0697	1060.29
6-28-76	6:15A	53°	100°	78°	59.30	7.11	77°	100.00	-0.723	-0.0879	1060.02
7-12-76	7:45A	53°	98°	63°	58.53	6.34	69°	99.97	-0.753	-0.0916	1059.67
7-26-76	8:00A	55°	90°	77°	59.17	6.98	76°	99.95	-0.773	-0.0940	1060.00
8-9-76	8:30A	52°	89°	71°	58.67	6.48	71°	99.93	-0.793	-0.0964	1059.98
8-23-76	9:00A	53°	85°	73°	58.68°	6.49	71°	99.94	-0.783	-0.0952	1060.19
9-3-76	8:00A	60°	99°	72°	59.10	6.91	75°	99.87	-0.853	-0.1037	1060.23
9-14-76	8:00A	52°	89°	61°	58.35	6.16	67°	99.91	-0.813	-0.0989	1060.98
9-27-76	7:30A	54°	75°	62°	58.34	6.15	67°	100.00	-0.723	-0.0879	1060.84
10-11-76	8:15A	55°	88°	67°	58.43	6.24	68°	100.11	-0.613	-0.0745	1061.50
10-25-76	8:00A	49°	85°	59°	57.71	5.52	60°	100.19	-0.533	-0.0648	1061.26
11-8-76	9:00A	47°	86°	66°	58.18	5.99	65°	100.23	-0.493	-0.0599	1061.05

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Leads extended 2-26-75

Drill-hole No DH - 2R

Meter No. M - 1

Sheet No.

Calibrations:

Calibration constant, corrected for leads .001202 inches per 0.01% ratio change

Resistance ratio at initial reading 100.00 per cent *

Resistance ratio, meter closed: 97.9 per cent

Resistance ratio, meter open: 103.0 per cent

Meter resistance at 0°F, corrected for leads 52.73 ohms

Change in temperature per ohm change in resistance 10.95 °F

* Adjusted resistance ratio after 2-26-75 (99.828)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-19-76	8:45A	39°	80°	67°	58.40	5.67	62°	100.00	+0.172	+0.0207	
2-2-76	8:45A	39°	80°	55°	57.78	5.05	55°	100.02	+0.192	+0.0231	
2-10-76	7:30A	36°	73°	46°	57.12	4.39	48°	100.00	+0.172	+0.0207	
2-23-76	8:45A	42°	67°	53°	57.41	4.68	51°	100.07	+0.242	+0.0291	
3-8-76	8:45A	34°	74°	47°	57.02	4.29	47°	100.04	+0.212	+0.0255	
3-23-76	7:15A	40°	77°	55°	57.90	5.17	57°	100.00	+0.172	+0.0207	
4-5-76	8:30A	38°	72°	48°	57.07	4.34	48°	100.05	+0.222	+0.0267	
4-8-76	11:00A	42°	62°	53°	57.50	4.77	52°	100.03	+0.202	+0.0243	
4-19-76	9:00A	39°	65°	66°	57.93	5.20	57°	100.03	+0.202	+0.0243	
5-3-76	8:15A	44°	85°	57°	58.12	5.39	59°	100.00	+0.172	+0.0207	
5-17-76	8:00A	47°	95°	59°	58.04	5.31	58°	100.00	+0.172	+0.0207	
6-1-76	7:30A	48°	77°	75°	58.99	6.26	69°	99.98	+0.152	+0.0183	
6-14-76	7:30A	50°	82°	72°	58.75	6.02	66°	100.00	+0.172	+0.0207	
6-28-76	6:15A	53°	100°	78°	59.47	6.74	74°	99.97	+0.142	+0.0171	
7-12-76	7:45A	53°	98°	63	58.77	6.04	66°	99.99	+0.162	+0.0195	
7-26-76	8:00A	55°	90°	77°	59.32	6.59	72°	99.99	+0.162	+0.0195	
8-9-76	8:30A	52°	89°	71°	58.93	6.20	68°	100.02	+0.192	+0.0231	
8-23-76	9:00A	53°	85°	73°	58.92	6.19	68°	100.02	+0.192	+0.0231	
9-3-76	8:00A	60°	99°	72°	59.29	6.56	72°	99.99	+0.162	+0.0195	
9-14-76	8:00A	52°	89°	61°	58.59	5.86	64°	100.01	+0.182	+0.0219	
9-27-76	7:30A	54°	75°	62°	58.58	5.85	64°	100.01	+0.182	+0.0219	
10-11-76	8:15A	55°	88°	67°	58.68	5.95	65°	100.01	+0.182	+0.0219	
10-25-76	8:00A	49°	85°	59°	58.03	5.30	58°	100.03	+0.202	+0.0243	
11-8-76	9:00A	47°	86°	66°	58.46	5.73	63°	100.07	+0.242	+0.0291	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Leads extended 2-26-75

Drill-hole No DH - 2aR

Meter No. J-15

Sheet No.

Calibrations:

Calibration constant, corrected for leads .000669 inches per 0.01% ratio change

Resistance ratio at initial reading 100.37 per cent *

Resistance ratio, meter closed: 96.1 per cent

Resistance ratio, meter open: 104.0 per cent

Meter resistance at 0°F, corrected for leads 57.46 ohms

Change in temperature per ohm change in resistance 9.65 °F

* Adjusted resistance ratio after 2-26-75 (99.827)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-19-76	8:45 A	39°	80°	67°	63.63	6.17	60°	100.42	+0.593	+0.0397	
2-2-76	8:45 A	39°	80°	55°	63.26	5.80	56°	100.41	+0.583	+0.0390	
2-10-76	7:30 A	36°	73°	46°	63.31	5.85	56°	100.41	+0.583	+0.0390	
2-23-76	8:45 A	42°	67°	53°	62.80	5.34	52°	100.40	+0.573	+0.0383	
3-8-76	8:45 A	34°	74°	47°	62.45	4.99	48°	100.41	+0.583	+0.0390	
3-23-76	7:15 A	40°	77°	55°	63.40	5.94	57°	100.42	+0.593	+0.0397	
4-5-76	8:30 A	38°	72°	48°	62.47	5.01	48°	100.41	+0.583	+0.0390	
4-8-76	11:00 A	42°	62°	53°	62.84	5.38	52°	100.42	+0.593	+0.0397	
4-19-76	9:00 A	39°	65°	66°	63.14	5.68	55°	100.42	+0.593	+0.0397	
5-3-76	8:15 A	44°	85°	57°	63.64	6.18	60°	100.42	+0.593	+0.0397	
5-17-76	8:00 A	47°	95°	59°	63.64	6.18	60°	100.42	+0.593	+0.0397	
6-1-76	7:30 A	48°	77°	75°	64.29	6.83	66°	100.43	+0.603	+0.0403	
6-14-76	7:30 A	50°	82°	72°	64.17	6.71	65°	100.43	+0.603	+0.0403	
6-28-76	6:15 A	53°	100°	78°	65.12	7.66	74°	100.43	+0.603	+0.0403	
7-12-76	7:45 A	53°	98°	63°	64.46	7.00	68°	100.40	+0.573	+0.0383	
7-26-76	8:00 A	56°	90°	77°	64.83	7.37	71°	100.41	+0.583	+0.0390	
8-9-76	8:30 A	52°	89°	71°	64.45	6.99	67°	100.40	+0.573	+0.0383	
8/18/76	Meter 2aR damaged while trying to remove it for inspection; all meters to be inspected by Carlson in October										

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Leads extended 2-26-75

Drill-hole No DH - 3R

Meter No. J - 16

Sheet No.

Calibrations:

Calibration constant, corrected for leads .000678 inches per 0.01% ratio change

Resistance ratio at initial reading 100.38 per cent*

Resistance ratio, meter closed: 96.7 per cent

Resistance ratio, meter open: 104.6 per cent

Meter resistance at 0°F, corrected for leads 58.29 ohms

Change in temperature per ohm change in resistance 9.66 °F

* Adjusted resistance ratio after 2-26-75 (100.16)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
1-19-76	8:45 A	39°	80°	67°	64.56	6.27	61°	100.42	+0.26	+0.0176	
2-2-76	8:45 A	39°	80°	55°	63.94	5.65	55°	100.43	+0.27	+0.0183	
2-10-76	7:30 A	36°	73°	46°	63.27	4.98	48°	100.37	+0.21	+0.0142	
2-23-76	8:45 A	42°	67°	53°	63.52	5.23	51°	100.46	+0.30	+0.0203	
3-8-76	8:45 A	34°	74°	47°	63.14	4.85	47°	100.46	+0.30	+0.0203	
[illegible]-23-76	7:15 A	40°	77°	55°	64.09	5.80	56°	100.42	+0.26	+0.0176	
4-5-76	8:30 A	38°	72°	48°	63.30	5.01	48°	100.44	+0.28	+0.0190	
4-8-76	11:00 A	42°	62°	53°	63.76	5.47	53°	100.42	+0.26	+0.0176	
4-19-76	9:00 A	39°	65°	66°	64.20	5.91	57°	100.41	+0.25	+0.0170	
5-3-76	8:15 A	44°	85°	67°	64.46	6.17	60°	100.34	+0.18	+0.0122	
5-17-76	8:00 A	47°	95°	59°	64.48	6.19	60°	100.30	+0.14	+0.0095	
6-1-76	7:30 A	48°	77°	75°	65.38	7.09	68°	100.28	+0.12	+0.0081	
6-14-76	7:30 A	50°	82°	72°	65.17	6.88	66°	100.25	+0.09	+0.0061	
6-28-76	6:15 A	53°	100°	78°	65.96	7.67	74°	100.14	-0.02	-0.0014	
7-12-76	7:45 A	53°	98°	63°	65.29	7.00	68°	100.17	+0.01	+0.0007	
7-26-76	8:00 A	55°	90°	77°	65.82	7.53	73°	100.16	0.00	0.0000	
8-9-76	8:30 A	52°	89°	71°	65.45	7.16	69°	100.19	+0.03	+0.0020	
8-23-76	9:00 A	53°	85°	73°	65.39	7.10	69°	100.21	+0.05	+0.0034	
9-3-76	8:00 A	60°	99°	72°	65.72	7.43	72°	100.19	+0.03	+0.0020	
9-14-76	8:00 A	52°	89°	61°	65.04	6.75	65°	100.22	+0.06	+0.0041	
9-27-76	7:30 A	54°	75°	62°	64.97	6.68	65°	100.22	+0.06	+0.0041	
10-11-76	8:15 A	55°	88°	67°	65.03	6.74	65°	100.26	+0.10	+0.0068	
10-25-76	8:00 A	49°	85°	59°	64.34	6.05	58°	100.32	+0.16	+0.0108	
11-8-76					Meter damaged 10-28-76						

GONSMAN

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH - 1L

Meter No. J - 12

Sheet No.

New Meter installed 9-28-72

Calibrations:

Calibration constant, corrected for leads .000642 inches per 0.01% ratio change

Resistance ratio at initial reading 100.06 per cent

Resistance ratio, meter closed: 95.8 per cent

Resistance ratio, meter open: 103.7 per cent

Meter resistance at 0°F, corrected for leads 55.05 ohms

Change in temperature per ohm change in resistance 9.61 °F

Adjusted resistance ratio after 9-28-72 (103.409)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
2-26-75	8:00 A	41°	78°	47°	59.81	4.76	46°	97.81	-5.599	-0.3595	1074.25
3-4-75	8:00 A	40°	77°	57°	60.32	5.27	51°	97.68	-5.729	-0.3678	1075.84
3-7-75	11:00 P		Full	reservoir	spilling	over notch.					
3-8-75	1:00 P	47°	64°	53°	60.56	5.51	53°	97.69	-5.719	-0.3672	1096.10
3-10-75	12:00 N	42°	58°	49°	60.07	5.02	48°	97.70	-5.709	-0.3665	1096.74
3-12-75	7:30 A	37°	57°	42°	59.32	4.27	41°	97.81	-5.599	-0.3595	1073.10
3-24-75	7:00 A	35°	72°	47°	60.06	5.01	48°	97.65	-5.759	-0.3697	1071.93
4-4-75	7:00 A	37°	72°	47°	60.19	5.14	49°	97.51	-5.899	-0.3787	1079.40
4-14-75	7:00 A	34°	66°	51°	60.40	5.35	51°	97.55	-5.859	-0.3761	1068.93
4-28-75	7:00 A	38°	74°	49°	60.21	5.16	50°	97.44	-5.969	-0.3832	1080.30
5-12-75	7:45 A	45°	83°	65°	61.52	6.47	62°	97.11	-6.299	-0.4044	1075.08
	Next	reading	made	because	of earthquake	occurring	@ 5:20P		5-12-75		
5-14-75	7:30 A	48°	84°	55°	61.03	5.98	57°	97.11	-6.299	-0.4044	1074.90
5-27-75	8:15 A	45°	80°	56°	61.02	5.97	57°	97.05	-6.359	-0.4082	1074.89
6-10-75	7:45 A	50°	84°	59°	61.14	6.09	59°	96.96	-6.449	-0.4140	1075.09
6-23-75	9:00 A	46°	88°	60°	61.56	6.51	63°	96.86	-6.549	-0.4204	1074.56
7-3-75	7:45 A	50°	87°	63°	61.52	6.47	62°	96.72	-6.689	-0.4294	1073.58
7-18-75	7:45 A	51°	97°	61°	61.74	6.69	64°	96.52	-6.889	-0.4423	1073.33
7-28-75	8:00 A	54°	92°	67°	61.99	6.94	67°	96.42	-6.989	-0.4487	1073.21
8-11-75	8:45 A	55°	100°	66°	61.94	6.89	66°	96.26	-7.149	-0.4590	1073.38
8-25-75	7:30 A	50°	92°	65°	62.06	7.01	67°	96.21	-7.199	-0.4622	1073.33
9-8-75	8:00 A	54°	96°	64°	62.01	6.96	67°	96.15	-7.259	-0.4660	1073.12
9-22-75	7:45 A	52°	96°	79°	62.69	7.64	73°	96.13	-7.279	-0.4673	1073.33
10-3-75	7:30 A	52°	100°	72°	62.25	7.20	69°	96.11	-7.299	-0.4686	1073.18
10-20-75	7:15 A	45°	97°	55°	60.74	5.69	55°	96.11	-7.299	-0.4686	1073.43
11/3/75	8:30 A	44°	82°	70°	61.21	6.16	59°	96.14	-7.269	-0.4667	1073.66
11-17-75	9:30 A	42°	90°	55°	60.63	5.58	54°	96.15	-7.259	-0.4660	1060.13
12-1-75	9:00 A	35°	85°	55°	59.84	4.79	46°	96.20	-7.209	-0.4628	1060.10
12-15-75	8:45 A	37°	86°	50°	59.57	4.52	43°	96.20	-7.209	-0.4628	1060.05
1-5-76	9:00 A	32°	78°	48°	59.64	4.59	44°	96.16	-7.249	-0.4654	1060.27

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2L

Meter No. M-3

Sheet No.

Original meter-cleaned & reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01% ratio change

Resistance ratio at initial reading 100.20 per cent *

Resistance ratio, meter closed: 98.6 per cent

Resistance ratio, meter open: 104.2 per cent

Meter resistance at 0°F, corrected for leads 49.67 ohms

Change in temperature per ohm change in resistance 10.95 °F

*Adjusted resistance ratio after 9-28-72 (100.06).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
2-26-75	8:00 A	41°	78°	47°	54.85	5.18	57°	100.29	+0.23	+0.0247	
3-4-75	8:00 A	40°	77°	57°	55.04	5.37	59°	100.27	+0.21	+0.0225	
3-7-75	11:00 P		Full	reservoir	spilling	over notch					
3-8-75	1:00 P	47°	64°	53°	55.89	6.22	68°	100.22	+0.16	+0.0172	
-10-75	12:00 N	42°	58°	49°	55.77	6.10	67°	100.21	+0.15	+0.0161	
3-12-75	7:30 A	37°	57°	42°	54.39	4.72	52°	100.25	+0.19	+0.0204	
3-24-75	7:00 A	35°	72°	47°	54.86	5.19	57°	100.27	+0.21	+0.0225	
4-4-75	7:00 A	37°	72°	47°	55.00	5.33	58°	100.25	+0.19	+0.0204	
4-14-75	7:00 A	34°	66°	51°	54.82	5.15	56°	100.29	+0.23	+0.0247	
4-28-75	7:00 A	38°	74°	44°	55.01	5.34	58°	100.27	+0.21	+0.0225	
5-12-75	7:45 A	45°	83°	65°	55.88	6.21	68°	100.25	+0.19	+0.0204	
	Next	reading	made	because	of earthquake	occurring	@	5:20 P, 5-12-75			
5-14-75	7:30 A	48°	84°	55°	55.63	5.96	65°	100.24	+0.18	+0.0193	
5-27-75	8:15 A	45°	80°	56°	55.58	5.91	65°	100.24	+0.18	+0.0193	
6-10-75	7:45 A	50°	84°	59°	55.65	5.98	65°	100.23	+0.17	+0.0182	
6-23-75	9:00 A	46°	88°	60°	55.81	6.14	67°	100.23	+0.17	+0.0182	
7-3-75	7:45 A	50°	87°	63°	56.06	6.39	70°	100.20	+0.14	+0.0150	
7-18-75	7:45 A	51°	97°	61°	56.15	6.48	71°	100.17	+0.11	+0.0118	
7-28-75	8:00 A	54°	92°	67°	56.39	6.72	74°	100.15	+0.09	+0.0097	
8-11-75	8:45 A	55°	100°	66°	56.53	6.86	75°	100.11	+0.05	+0.0054	
8-25-75	7:30 A	50°	92°	65°	56.55	6.88	75°	100.12	+0.06	+0.0064	
9-8-75	8:00 A	54°	96°	64°	56.56	6.89	75°	100.09	+0.03	+0.0032	
9-22-75	7:45 A	52°	95°	79°	56.84	7.17	79°	100.11	+0.05	+0.0054	
10-3-75	7:30 A	52°	100°	72°	56.59	6.92	76°	100.09	+0.03	+0.0032	
10-20-75	7:15 A	45°	97°	55°	55.65	5.98	65°	100.10	+0.04	+0.0043	
11/3/75	8:30 A	44°	82	70°	55.66	5.99	66°	100.13	+0.07	+0.0075	
11-17-75	9:30 A	42°	90°	55°	55.24	5.57	61°	100.13	+0.07	+0.0075	
12-1-75	9:00 A	35°	85°	55°	54.69	5.02	55°	100.16	+0.10	+0.0107	
12-15-75	8:45 A	37°	86°	50°	54.47	4.80	53°	100.16	+0.10	+0.0107	
1-5-76	9:00 A	32°	78°	48°	54.47	4.80	53°	100.17	+0.11	+0.0118	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2aL

Meter No. J-13

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000627 inches per 0.01% ratio change

Resistance ratio at initial reading 100.04 per cent *

Resistance ratio, meter closed: 96.0 per cent

Resistance ratio, meter open: 104.0 per cent

Meter resistance at 0°F, corrected for leads 54.84 ohms

Change in temperature per ohm change in resistance 9.56 °F

*Adjusted resistance ratio after 9-28-72 (99.88).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
2-26-75	8:00 A	41°	78°	47°	61.02	6.18	59°	100.11	+0.23	+0.0144	
3-4-75	8:00 A	40°	77°	57°	61.22	6.38	61°	100.11	+0.23	+0.0144	
3-7-75	11:00 P		Full	reservior	spilling	over	notch				
3-8-75	1:00 P	47°	64°	53°	61.44	6.60	63°	100.10	+0.22	+0.0138	
3-10-75	12:00 N	42°	58°	49°	61.36	6.52	62°	100.09	+0.21	+0.0132	
3-12-75	7:30 A	37°	57°	42°	61.19	6.35	61°	100.10	+0.22	+0.0138	
3-24-75	7:00 A	35°	72°	47°	60.94	6.10	58°	100.11	+0.23	+0.0144	
4-4-75	7:00 A	37°	72°	47°	61.14	6.30	60°	100.10	+0.22	+0.0138	
4-14-75	7:00 A	34°	66°	51°	60.81	5.97	57°	100.12	+0.24	+0.0150	
4-28-75	7:00 A	38°	74°	49°	61.12	6.28	60°	100.12	+0.24	+0.0150	
5-12-75	7:45 A	45°	83°	65°	62.02	7.18	69°	100.13	+0.25	+0.0157	
	Next reading	made	because	of	earthquake	occurring	@	5:20 P	5-12	-75	
5-14-75	7:30 A	48°	84°	55°	61.80	6.96	67°	100.12	+0.24	+0.0150	
5-27-75	8:15 A	45°	80°	56°	61.68	6.84	65°	100.12	+0.24	+0.0150	
6-10-75	7:45 A	50°	84°	59°	61.75	6.91	66°	100.12	+0.24	+0.0150	
6-23-75	9:00 A	46°	88°	60°	61.90	7.06	67°	100.12	+0.24	+0.0150	
7-3-75	7:45 A	50°	87°	63°	62.23	7.39	71°	100.12	+0.24	+0.0150	
7-18-75	7:45 A	51°	97°	61°	62.34	7.50	72°	100.12	+0.24	+0.0150	
7-28-75	8:00 A	54°	92°	67°	62.62	7.78	74°	100.12	+0.24	+0.0150	
8-11-75	8:45 A	55°	100°	66°	62.82	7.98	76°	100.12	+0.24	+0.0150	
8-25-75	7:30 A	50°	92°	65°	62.80	7.96	76°	100.12	+0.24	+0.0150	
9-8-75	8:00 A	54°	96°	64°	62.87	8.03	77°	100.12	+0.24	+0.0150	
9-22-75	7:45 A	52°	95°	79°	63.14	8.30	79°	100.13	+0.25	+0.0157	
10-3-75	7:30 A	52°	100°	72°	62.91	8.07	77°	100.12	+0.24	+0.0150	
10-20-75	7:15 A	45°	97°	55°	61.96	7.12	68°	100.13	+0.25	+0.0157	
11/3/75	8:30 A	44°	82°	70°	61.93	7.09	68°	100.14	+0.26	+0.0163	
11-17-75	9:30 A	42°	90°	55°	61.49	6.65	64°	100.13	+0.25	+0.0157	
12-1-75	9:00 A	35°	85°	55°	60.83	5.99	57°	100.14	+0.26	+0.0163	
12-15-76	8:45 A	37°	86°	50°	60.55	5.71	55°	100.13	+0.25	+0.0157	
1-5-76	9:00 A	32°	78°	48°	60.58	5.74	55°	100.14	+0.26	+0.0163	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-3L
Meter No. J-14
Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000681 inches per 0.01% ratio change
Resistance ratio at initial reading 100.14 per cent *
Resistance ratio, meter closed: 95.2 per cent
Resistance ratio, meter open: 102.9 per cent
Meter resistance at 0°F, corrected for leads 56.75 ohms
Change in temperature per ohm change in resistance 9.61 °F
*Adjusted resistance ratio after 9-28-72 (98.231).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
2-26-75	8:00 A	41°	78°	47°	61.92	5.17	50°	100.21	+1.979	+0.1348	
3-4-75	8:00 A	40°	77°	57°	62.12	5.37	52°	100.21	+1.979	+0.1348	
3-7-75	11:00 P		Full	reservior	spilling	over notch					
3-8-75	1:00 P	47°	64°	53°	61.99	5.24	50°	100.11	+1.879	+0.1280	
-10-75	12:00 N	42°	58°	49°	6198	5.23	50°	100.12	+1.889	+0.1286	
3-12-75	7:30 A	37°	57°	42°	61.95	5.20	50°	100.15	+1.919	+0.1307	
3-24-75	7:00 A	35°	72°	47°	62.29	5.54	53°	100.18	+1.949	+0.1327	
4-4-75	7:00 A	37°	72°	47°	62.15	5.40	52°	100.16	+1.929	+0.1314	
4-14-75	7:00 A	34°	66°	51°	62.37	5.62	54°	100.20	+1.969	+0.1341	
4-28-75	7:00 A	38°	74°	49°	62.45	5.70	55°	100.18	+1.949	+0.1327	
5-12-75	7:45 A	45°	83°	65°	62.93	6.18	59°	100.20	+1.969	+0.1341	
	Next reading		made	because	of earthquake		occurring	@ 5:20 P	5-12-75		
5-14-75	7:30 A	48°	84°	55°	63.00	6.25	60°	100.20	+1.969	+0.1341	
5-27-75	8:15 A	45°	80°	56°	63.25	6.50	62°	100.20	+1.969	+0.1341	
6-10-75	7:45 A	50°	84°	59°	63.63	6.88	66°	100.21	+1.979	+0.1348	
6-23-75	9:00 A	46°	88°	60°	63.75	7.00	67°	100.21	+1.979	+0.1348	
7-3-75	7:45 A	50°	87°	63°	63.94	7.19	69°	100.21	+1.979	+0.1348	
7-18-75	7:45 A	51°	97°	61°	64.26	7.51	72°	100.23	+1.999	+0.1361	
7-28-75	8:00 A	54°	92°	67°	64.40	7.65	74°	100.23	+1.999	+0.1361	
8-11-75	8:45 A	55°	100°	66°	64.47	7.72	74°	100.23	+1.999	+0.1361	
8-25-75	7:30 A	50°	92°	65°	64.20	7.45	72°	100.23	+1.999	+0.1361	
9-8-75	8:00 A	54°	96°	64°	64.16	7.41	71°	100.24	+2.009	+0.1368	
9-22-75	7:45 A	52°	95°	79°	64.17	7.42	71°	100.24	+2.009	+0.1368	
10-3-75	7:30 A	52°	100°	72°	63.95	7.20	69°	100.24	+2.009	+0.1368	
10/20/75	7:15 A	45°	97°	55°	63.38	6.63	64°	100.22	+1.989	+0.1355	
11/3/75	8:30 A	44°	82°	70°	62.99	6.24	60°	100.24	+2.009	+0.1368	
11-17-75	9:30 A	42°	90°	55°	62.61	5.86	56°	100.31	+2.079	+0.1416	
12-1-75	9:00 A	35°	85°	55°	62.03	5.28	51°	100.34	+2.109	+0.1436	
12-15-75	8:45 A	37°	86°	50°	61.96	5.21	50°	100.34	+2.109	+0.1436	
1-5-76	9:00 A	32°	78°	48°	61.53	4.78	46°	100.37	+2.139	+0.1457	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH - 1R

Meter No. M - 6

Sheet No.

Leads extended 2-26-75

Calibrations:

Calibration constant, corrected for leads .001216 inches per 0.01% ratio change

Resistance ratio at initial reading 100.57 per cent

Resistance ratio, meter closed: 98.0 per cent

Resistance ratio, meter open: 103.6 per cent

Meter resistance at 0°F, corrected for leads 52.19 ohms

Change in temperature per ohm change in resistance 10.88 °F

Adjusted resistance ratio after 2-26-75 (100.723)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
		After	Leads	extended							
2-26-75	8:00 A	—	—	49°	56.83	4.64	50°	100.57	-0.153	-0.0186	1074.25
3-4-75	8:00 A	—	—	55°	57.20	5.01	55°	100.56	-0.163	-0.0198	1075.84
3-7-75	11:00 P		Full	reservoir spilling over notch							
3-8-75	1:00 P	—	—	53°	57.31	5.12	56°	100.52	-0.203	-0.0247	1096.10
3-10-75	12:00 N	—	—	51°	56.94	4.75	52°	100.53	-0.193	-0.0235	1090.74
3-12-75	7:30 A	—	—	45°	56.63	4.44	48°	100.57	-0.153	-0.0186	1073.10
3-24-75	7:00 A	—	—	48°	56.85	4.66	51°	100.59	-0.133	-0.0162	1071.93
4-4-75	7:00 A	—	—	48°	56.84	4.65	51°	100.58	-0.143	-0.0174	1079.40
4-14-75	7:00 A	—	—	50°	57.04	4.85	53°	100.61	-0.113	-0.0137	1068.93
4-28-75	7:00 A	—	—	51°	57.14	4.95	54°	100.58	-0.143	-0.0174	1080.30
5-12-75	7:45 A	—	—	67°	58.27	6.08	66°	100.51	-0.213	-0.0259	1075.08
	Next	reading		Taken because	of earthquake	occurring @	5:20 P	5-12-75			
5-14-75	7:30 A	New thermistor 5-13-75		59°	57.66	5.47	60°	100.51	-0.213	-0.0259	1074.90
5-27-75	8:30 A	46°	76°	54°	57.70	5.51	60°	100.49	-0.233	-0.0283	1074.89
6-10-75	8:15 A	51°	80°	64°	58.04	5.85	64°	100.46	-0.263	-0.0320	1075.09
6-23-75	9:00 A	47°	82°	62°	58.15	5.96	65°	100.41	-0.313	-0.0381	1074.56
7-3-75	7:45 A	50°	85°	68°	58.34	6.15	67°	100.35	-0.373	-0.0454	1073.58
7-18-75	7:45 A	52°	92°	62°	58.36	6.17	67°	100.26	-0.463	-0.0563	1073.83
7-28-75	8:00 A	54°	88°	70°	58.72	6.53	71°	100.21	-0.513	-0.0624	1073.21
8-11-75	8:45 A	57°	97°	68°	58.70	6.51	71°	100.14	-0.583	-0.0709	1073.38
8-25-75	7:30 A	51°	87°	70°	58.69	6.50	71°	100.14	-0.583	-0.0709	1073.33
9-8-75	8:00 A	54°	90°	64°	58.56	6.37	69°	100.09	-0.633	-0.0770	1073.12
9-22-75	7:45 A	54°	89	79°	59.27	7.08	77°	100.07	-0.653	-0.0794	1073.33
10-3-75	7:30 A	53°	94°	72°	58.80	6.61	72°	100.06	-0.663	-0.0806	1073.18
10-20-75	7:15 A	46°	91°	56°	57.62	5.43	59°	100.11	-0.613	-0.0745	1073.43
11/3/75	8:30 A	45°	75°	70°	58.07	5.88	64°	100.13	-0.593	-0.0721	1073.66
11/17/75	9:30 A	42°	83°	56°	57.50	5.31	58°	100.16	-0.563	-0.0685	1060.13
12-1-75	9:00 A	38°	78°	54°	56.93	4.74	52°	100.23	-0.493	-0.0599	1060.10
12-15-75	8:45 A	38°	78°	51°	56.73	4.54	49°	100.24	-0.483	-0.0587	1060.05
1-5-76	9:00 A	32°	72°	49°	56.71	4.52	49°	100.25	-0.473	-0.0575	1060.27

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Leads extended 2-26-75

Drill-hole No DH - 2R

Meter No. M - 1

Sheet No.

Calibrations:

Calibration constant, corrected for leads .001202 inches per 0.01% ratio change

Resistance ratio at initial reading 100.00 per cent

Resistance ratio, meter closed: 97.9 per cent

Resistance ratio, meter open: 103.0 per cent

Meter resistance at 0°F, corrected for leads 52.73 ohms

Change in temperature per ohm change in resistance 10.95 °F

Adjusted resistance ratio after 2-26-75 (99.828)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
		After	leads	extended							
2-26-75	8:00 A	—	—	49°	57.18	4.45	49°	100.00	+0.172	+0.0207	
3-4-75	8:00 A	—	—	55°	57.50	4.77	52°	99.98	+0.152	+0.0183	
3-7-75	11:00 P		Full	reservoir	spilling	over notch					
3-8-75	1:00 P	—	—	53°	57.54	4.81	53°	99.95	+0.122	+0.0147	
3-10-75	12:00 N	—	—	51°	57.17	4.44	49°	99.96	+0.132	+0.0159	
3-12-75	7:30 A	—	—	45°	56.97	4.24	46°	99.99	+0.162	+0.0195	
3-24-75	7:00 A	—	—	48°	57.16	4.43	49°	99.99	+0.162	+0.0195	
4-4-75	7:00 A	—	—	48°	57.16	4.43	49°	99.98	+0.152	+0.0183	
4-14-75	7:00 A	—	—	50°	57.32	4.59	50°	99.99	+0.162	+0.0195	
4-28-75	7:00 A	—	—	51°	57.45	4.72	52°	99.98	+0.152	+0.0183	
5-12-75	7:45 A	—	—	67°	58.48	5.75	63°	99.95	+0.122	+0.0147	
	Next reading	Taken	because	of earthquake	occurring	@ 5:20 P				5-12-73	
5-14-75	7:30 A	New thermistor 5-13-75		59°	57.92	5.19	57°	99.95	+0.122	+0.0147	
5-27-75	8:30 A	46°	76°	54°	57.93	5.20	57°	99.96	+0.132	+0.0159	
6-10-75	8:15 A	51°	80°	64°	58.24	5.51	60°	99.96	+0.132	+0.0159	
6-23-75	9:00 A	47°	82°	62°	58.34	5.61	61°	99.95	+0.122	+0.0147	
7-3-75	7:45 A	50°	85°	68°	58.51	5.78	63°	99.95	+0.122	+0.0147	
7-18-75	7:45 A	52°	92°	62°	58.54	5.81	64°	99.95	+0.122	+0.0147	
7-28-75	8:00 A	54°	88°	70°	58.88	6.15	67°	99.94	+0.112	+0.0135	
8-11-75	8:45 A	57°	97°	68°	58.87	6.14	67°	99.95	+0.122	+0.0147	
8-25-75	7:30 A	51°	87°	70°	58.87	6.14	67°	99.96	+0.132	+0.0159	
9-8-75	8:00 A	54°	90°	64°	58.71	5.98	65°	99.95	+0.122	+0.0147	
9-22-75	7:45 A	54°	89°	79°	59.39	6.66	73°	99.95	+0.122	+0.0147	
10-3-75	7:30 A	53°	94°	72°	58.97	6.24	68°	99.96	+0.132	+0.0159	
10-20-75	7:15 A	46°	91°	56°	57.91	5.18	57°	100.00	+0.172	+0.0207	
11/3/75	8:30 A	45°	75°	70°	58.28	5.55	61°	99.99	+0.162	+0.0195	
11/17/75	9:30 A	42°	83°	56°	57.78	5.05	55°	100.01	+0.182	+0.0219	
12-1-75	9:00 A	38°	78°	54°	57.28	4.55	50°	100.05	+0.222	+0.0267	
12-15-75	8:45 A	38°	78°	51°	57.11	4.38	48°	100.05	+0.222	+0.0267	
1-5-76	9:00 A	32°	72°	49°	57.07	4.34	48°	100.05	+0.222	+0.0267	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH - 2aR

Meter No. J-15

Sheet No.

Leads extended 2-26-75

Calibrations:

Calibration constant, corrected for leads .000669 inches per 0.01% ratio change

Resistance ratio at initial reading 100.37 per cent

Resistance ratio, meter closed: 96.1 per cent

Resistance ratio, meter open: 104.0 per cent

Meter resistance at 0°F, corrected for leads 57.46 ohms

Change in temperature per ohm change in resistance 9.65 °F

Adjusted resistance ratio after 2-26-75 (99.827)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
		After	leads	extended							
2-26-75	8:00 A	—	—	49°	63.16	5.70	55°	100.37	+0.543	+0.0363	
3-4-75	8:00 A	—	—	55°	63.31	5.85	56°	100.40	+0.573	+0.0383	
3-7-75	11:00 P		Full	reservior	spilling	over notch					
3-8-75	1:00 P	—	—	53°	63.46	6.00	58°	100.40	+0.573	+0.0383	
3-10-75	12:00 N	—	—	51°	63.35	5.89	57°	100.42	+0.593	+0.0397	
3-12-75	7:30 A	—	—	45°	63.10	5.64	54°	100.41	+0.583	+0.0390	
3-24-75	7:00 A	—	—	48°	62.98	5.52	53°	100.40	+0.573	+0.0383	
4-4-75	7:00 A	—	—	48°	63.10	5.64	54°	100.40	+0.573	+0.0383	
4-14-75	7:00 A	—	—	50°	62.96	5.50	53°	100.41	+0.583	+0.0390	
4-28-75	7:00 A	—	—	51°	63.33	5.87	57°	100.41	+0.583	+0.0390	
5-12-75	7:45 A	—	—	67°	63.74	6.28	61°	100.41	+0.583	+0.0390	
	Next	reading	Taken	because	of	earthquake	occurring	@ 5:20 P	5-12-75		
5-14-75	7:30 A	New Thermister 5-13-75		59°	63.52	6.06	58°	100.41	+0.583	+0.0390	
5-27-75	8:30 A	46°	76°	54°	63.50	6.04	58°	100.42	+0.593	+0.0397	
6-10-75	8:15 A	51°	80°	64°	63.71	6.25	60°	100.42	+0.593	+0.0397	
6-23-75	9:00 A	47°	82°	62°	63.76	6.30	61°	100.41	+0.583	+0.0390	
7-3-75	7:45 A	50°	85°	68°	63.94	6.48	63°	100.41	+0.583	+0.0390	
7-18-75	7:45 A	52°	92°	62°	64.00	6.54	63°	100.41	+0.583	+0.0390	
7-28-75	8:00 A	54°	88°	70°	64.23	6.77	65°	100.41	+0.583	+0.0390	
8-11-75	8:45 A	57°	97°	68°	64.33	6.87	66°	100.41	+0.583	+0.0390	
8-25-75	7:30 A	57°	87°	70°	64.30	6.84	66°	100.42	+0.593	+0.0397	
9-8-75	8:00 A	54°	90°	64°	64.27	6.81	66°	100.42	+0.593	+0.0397	
9-22-75	7:45 A	54°	89°	79°	64.56	7.10	69°	100.42	+0.593	+0.0397	
10-3-75	7:30 A	53°	94°	72°	64.36	6.90	67°	100.42	+0.593	+0.0397	
10-20-75	7:15 A	46°	91°	56°	63.84	6.38	62°	100.42	+0.593	+0.0397	
11/3/75	8:30 A	45°	75°	70°	63.91	6.45	62°	100.42	+0.593	+0.0397	
11-17-75	9:30 A	42°	83°	56°	63.23	5.77	56°	100.40	+0.573	+0.0383	
12-1-75	9:00 A	38°	78°	54°	62.65	5.19	50°	100.40	+0.573	+0.0383	
12-15-75	8:45 A	38°	78°	51°	62.46	5.00	48°	100.40	+0.573	+0.0383	
1-5-76	9:00 A	32°	72°	49°	62.45	4.99	48°	100.40	+0.573	+0.0383	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH - 3R

Meter No. J - 16

Sheet No.

Leads extended 2-26-75

Calibrations:

Calibration constant, corrected for leads .000678 inches per 0.01% ratio change

Resistance ratio at initial reading 100.38 per cent

Resistance ratio, meter closed: 96.7 per cent

Resistance ratio, meter open: 104.6 per cent

Meter resistance at 0°F, corrected for leads 58.29 ohms

Change in temperature per ohm change in resistance 9.66 °F

Adjusted resistance ratio after 2-26-75 (100.16)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
		After	leads	extended							
2-26-75	8:00 A	—	—	49°	63.37	5.08	49°	100.38	+0.22	+0.0149	
3-4-75	8:00 A	—	—	55°	63.70	5.41	52°	100.35	+0.19	+0.0129	
3-7-75	11:00 P		Full	reservior	Spilling	over notch					
3-8-75	11:00 P	—	—	53°	63.57	5.28	51°	100.23	+0.07	+0.0047	
3-10-75	12:00 N	—	—	51°	63.39	5.10	49°	100.25	+0.09	+0.0061	
3-12-75	7:30 A	—	—	45°	63.21	4.92	47°	100.33	+0.17	+0.0115	
3-24-75	7:00 A	—	—	48°	63.33	5.04	49°	100.36	+0.20	+0.0136	
4-4-75	7:00 A	—	—	48°	63.35	5.06	49°	100.34	+0.18	+0.0122	
4-14-75	7:00 A	—	—	50°	63.52	5.23	51°	100.35	+0.19	+0.0129	
4-28-75	7:00 A	—	—	51°	63.65	5.36	52°	100.30	+0.14	+0.0095	
5-12-75	7:45 A	—	—	67°	64.82	6.53	63°	100.22	+0.06	+0.0046	
	Next	reading	Taken	because	of	earthquake		occuring	@ 5:20P	5-12-75	
5-14-75	7:30 A	New Thermister 5-13-75		59°	64.24	5.95	57°	100.22	+0.06	+0.0041	
5-27-75	8:30 A	46°	76°	54°	64.26	5.97	58°	100.18	+0.02	+0.0014	
6-10-75	8:15 A	51°	80°	64°	64.64	6.35	61°	100.15	-0.01	-0.0007	
6-23-75	9:00 A	47°	82°	62°	64.76	6.47	62°	100.13	-0.03	-0.0020	
7-3-75	7:45 A	50°	85°	68°	65.01	6.72	65°	100.10	-0.06	-0.0041	
7-18-75	7:45 A	52°	92°	62°	65.05	6.76	65°	100.06	-0.10	-0.0068	
7-28-75	8:00 A	54°	88°	70°	65.43	7.14	69°	100.05	-0.11	-0.0075	
8-11-75	8:45 A	57°	92°	68°	65.50	7.21	70°	100.02	-0.14	-0.0095	
8-25-75	7:30 A	51°	87°	70°	65.46	7.17	69°	100.06	-0.10	-0.0068	
9-8-75	8:00 A	54°	90°	64°	65.30	7.01	68°	100.05	-0.11	-0.0075	
9-22-75	7:45 A	54°	89°	79°	65.92	7.63	74°	100.04	-0.12	-0.0081	
10-3-75	7:30 A	53°	94°	72°	65.47	7.18	69°	100.07	-0.09	-0.0061	
10-20-75	7:15 A	46°	91°	56°	64.33	6.04	58°	100.13	-0.03	-0.0020	
11-3-75	8:30 A	45°	75°	70°	64.65	6.36	61°	100.19	+0.03	+0.0020	
11-17-75	9:30 A	42°	83°	56°	64.00	5.71	55°	100.30	+0.04	+0.0027	
12-1-75	9:00 A	38°	78°	54°	63.44	5.15	50°	100.41	+0.25	+0.0170	
12-15-75	8:45 A	38°	78°	51°	63.18	4.89	47°	100.44	+0.28	+0.0190	
1-5-76	9:00 A	32°	72°	49°	63.11	4.82	47°	100.49	+0.33	+0.0224	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-1L

Meter No. J-12

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000642 inches per 0.01% ratio change

Resistance ratio at initial reading 100.06 per cent *

Resistance ratio, meter closed: 95.8 per cent

Resistance ratio, meter open: 103.7 per cent

Meter resistance at 0°F, corrected for leads 55.05 ohms

Change in temperature per ohm change in resistance 9.61 °F

*Adjusted resistance ratio after 9-28-72 (103.409)

Date	Daylight Savings ~~Pac Std~~ Time	Temperature Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
~~4-16-74~~	DST 0820	44°	64°	57°	60.91	5.86	56°	99.23	-4.179	-0.2683	1080.80
~~4-24-74~~	DST 0900	43°	80°	72°	61.37	6.32	61°	99.21	-4.199	-0.2696	1072.85
~~5-13-74~~	DST 0800	48°	88°	55°	60.82	5.77	55°	98.99	-4.419	-0.2837	1074.44
5-28-74	0945	44°	98°	58°	61.44	6.39	61°	98.95	-4.459	-0.2863	1074.67
6-10-74	0830	48°	86°	61°	61.38	6.33	61°	98.97	-4.419	-0.2837	1073.98
6-24-74	0900	49°	92°	78°	62.43	7.38	71°	98.87	-4.539	-0.2914	1073.12
6-27-74	0830	63°	96°	78°	62.42	7.37	71°	98.79	-4.619	-0.2965	1072.75
~~7-8-74~~	~~0845~~	~~53°~~	~~98°~~	~~61°~~	~~61.98~~			~~98.09~~			~~1071.81~~
7-8-74	0845	53°	98°	61°	61.51	6.46	62°	98.70	-4.709	-.3023	1071.81
7-22-74	0930	54°	98°	73°	62.19	7.14	69°	98.53	-4.879	-.3132	1071.72
8-6-74	0900	61°	96°	71°	62.16	7.11	68°	98.42	-4.989	-.3203	1071.68
8-20-74	0830	55°	91°	60°	61.53	6.48	62°	98.46	-4.949	-.3177	1071.65
9-3-74	0830	53°	95°	69°	62.26	7.21	69°	98.29	-5.119	-.3286	1071.60
9-16-74	0815	53°	97°	62°	61.60	6.55	63°	98.26	-5.149	-.3306	1071.58
9-30-74	0930	51°	98°	73°	61.98	6.93	67°	98.09	-5.319	-.3415	1071.57
10-14-74	0920	49°	88°	60°	60.82	5.77	55°	98.04	-5.369	-.3447	1071.58
10-25-74	0930	47°	97°	65°	61.27	6.22	60°	98.07	-5.339	-.3428	1071.37
PST 11-11-74	PST 0845	42°	83°	72°	61.38	6.33	61°	98.02	-5.389	-.3460	1060.25
11-25-74	PST 0835	42°	91°	56°	60.25	5.20	50°	98.05	-5.359	-.3440	1060.86
12-9-74	PST 0945	40°	80°	55°	60.10	5.05	49°	98.08	-5.329	-.3421	1065.26
12-23-74	PST 0830	38°	78°	44°	59.00	3.95	38°	97.98	-5.429	-.3485	1065.39
1-6-75	PST 0900	35°	66°	56°	60.26	5.21	50°	98.03	-5.379	-.3453	1066.14
	Pac. Std Time										
1-20-75	8:15 A	44°	85°	57°	60.76	5.71	55°	97.87	-5.539	-0.3556	1065.35
2-3-75	8:00 A	32°	86°	44°	59.48	4.43	43°	98.04	-5.369	-0.3447	1067.52
2-18-75	8:45 A	35°	68°	51°	59.37	4.32	42°	97.92	-5.489	-0.3524	1070.02
2-21-75	8:00 A	37°	64°	49°	59.77	4.72	46°	97.88	-5.529	-0.3550	1072.03

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH - 1L

Meter No. J - 12

Sheet No.

New Meter installed 9-28-72

Calibrations:

Calibration constant, corrected for leads .000642 inches per 0.01% ratio change

Resistance ratio at initial reading 100.06 per cent

Resistance ratio, meter closed: 95.8 per cent

Resistance ratio, meter open: 103.7 per cent

Meter resistance at 0°F, corrected for leads 55.05 ohms

Change in temperature per ohm change in resistance 9.61 °F

Adjusted resistance ratio after 9-28-72 (103.409)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
2-26-75	8:00 A	41°	78°	47°	59.81	4.76	46°	97.81	-5.599	-0.3595	1074.25
3-4-75	8:00 A	40°	77°	57°	60.32	5.27	51°	97.68	-5.729	-0.3678	1075.84
3-7-75	11:00 P		Full	reservoir	spilling	over notch.					
3-8-75	1:00 P	47°	64°	53°	60.56	5.51	53°	97.69	-5.719	-0.3672	1096.10
3-10-75	12:00 N	42°	58°	49°	60.07	5.02	48°	97.70	-5.709	-0.3665	1090.74
3-12-75	7:30 A	37°	57°	42°	59.32	4.27	41°	97.81	-5.599	-0.3595	1073.10
3-24-75	7:00 A	35°	72°	47°	60.06	5.01	48°	97.65	-5.759	-0.3697	1071.93
4-4-75	7:00 A	37°	72°	47°	60.19	5.14	49°	97.51	-5.899	-0.3787	1079.40

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2L

Meter No. M-3

Sheet No.

Original meter-cleaned & reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01% ratio change

Resistance ratio at initial reading 100.20 per cent *

Resistance ratio, meter closed: 98.6 per cent

Resistance ratio, meter open: 104.2 per cent

Meter resistance at 0°F, corrected for leads 49.67 ohms

Change in temperature per ohm change in resistance 10.95 °F

*Adjusted resistance ratio after 9-28-72 (100.06).

Date	Daylight Savings ~~Pac Std~~ Time	Temperature Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-16-74	0820	44°	84°	57°	55.67	6.00	66°	100.33	+.27	+0.0290	1080.80
4-29-74	0900	43°	80°	72°	55.80	6.13	67°	100.31	+.25	+0.0268	1072.85
5-13-74	0800	48°	88°	55°	55.36	5.69	62°	100.33	+.27	+0.0290	1074.44
5-28-74	0945	44°	98°	58°	55.95	6.28	69°	100.28	+.22	+0.0236	1074.67
6-10-74	0830	48°	86°	61°	55.82	6.15	67°	100.32	+.26	+0.0279	1073.98
6-24-74	0900	49°	92°	78°	56.58	6.91	76°	100.33	+.27	+0.0290	1073.12
6-27-74	0830	63°	96°	78°	56.72	7.05	77°	100.28	+.22	+0.0236	1072.75
7-8-74	0845	53°	98°	61°	56.09	6.42	70°	100.23	+.17	+0.0182	1071.81
7-22-74	0930	54°	98°	73°	56.63	6.96	76°	100.21	+.15	+0.0161	1071.72
8-6-74	0900	61°	96°	71°	56.65	6.98	76°	100.19	+.13	+0.0139 ~~+0.0140~~	1071.68
8-20-74	0830	55°	91°	60°	56.13	6.46	71°	100.31	+.25	+0.0268	1071.65
9-3-74	0830	53°	95°	69°	56.76	7.09	78°	100.18	+.12	+0.0129	1071.60
9-16-74	0815	53°	97°	62°	56.45	6.78	74°	100.15	+.09	+0.0010	1071.58
9-30-74	0930	51°	98°	73°	56.47	6.80	74°	100.18	+.12	+0.0129	1071.57
10-11-74	0920	49°	88°	60°	55.70	6.03	66°	100.17	+.11	+0.0118	1071.58
10-25-74 PST	0930 PST	47°	97°	65°	55.78	6.11	67°	100.23	+.17	+0.0182	1071.37
11-10-74	0945 PST	42°	83°	72°	55.71	6.04	66°	100.24	+.18	+0.0193	1060.25
11-25-74	0835 PST	42°	91°	56°	55.02	5.35	59°	100.25	+.19	+0.0204	1060.86
12-4-74	0945 PST	40°	80°	55°	54.77	5.10	56°	100.26	+.20	+0.0215	1065.26
12-23-74	0830 PST	38°	78°	44°	54.39	4.72	52°	100.29	+.23	+0.0247	1065.39
1-6-75	0900 Pac. Std Time	35°	66°	56°	54.60	4.93	54°	100.30	+.24	+0.0258	1066.14
1-20-75	8:15 A	44°	85°	57°	55.10	5.43	59°	100.28	+0.22	+0.0236	
2-3-75	8:00 A	32°	86°	44°	54.12	4.45	49°	100.29	+0.23	+0.0247	
2-18-75	8:45 A	35°	68°	51°	54.35	4.68	51°	100.28	+0.22	+0.0236	
2-21-75	8:00 A	37°	64°	49°	54.48	4.81	53°	100.29	+0.23	+0.0247	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2L

Meter No. M-3

Sheet No.

Original meter-cleaned & reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01% ratio change

Resistance ratio at initial reading 100.20 per cent *

Resistance ratio, meter closed: 98.6 per cent

Resistance ratio, meter open: 104.2 per cent

Meter resistance at 0°F, corrected for leads 49.67 ohms

Change in temperature per ohm change in resistance 10.95 °F

*Adjusted resistance ratio after 9-28-72 (100.06).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
2-26-75	8:00 A	41°	78°	47°	54.85	5.18	57°	100.29	+0.23	+0.0247	
3-4-75	8:00 A	40°	77°	57°	55.04	5.37	59°	100.27	+0.21	+0.0225	
3-7-75	11:00 P		Full	reservoir	Spilling	over notch					
3-8-75	1:00 P	47°	64°	53°	55.89	6.22	68°	100.22	+0.16	+0.0172	
-10-75	12:00 N	42°	58°	49°	55.77	6.10	67°	100.21	+0.15	+0.0161	
3-12-75	7:30 A	37°	57°	42°	54.39	4.72	52°	100.25	+0.19	+0.0204	
3-24-75	7:00 A	35°	72°	47°	54.86	5.19	57°	100.27	+0.21	+0.0225	
4-4-75	7:00 A	37°	72°	47°	55.00	5.33	58°	100.25	+0.19	+0.0204	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2aL

Meter No. J-13

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000627 inches per 0.01% ratio change

Resistance ratio at initial reading 100.04 per cent *

Resistance ratio, meter closed: 96.0 per cent

Resistance ratio, meter open: 104.0 per cent

Meter resistance at 0°F, corrected for leads 54.84 ohms

Change in temperature per ohm change in resistance 9.56 °F

*Adjusted resistance ratio after 9-28-72 (99.88).

Date	Daylight Savings ~~Pac Std~~ Time	Temperature Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-16-74	0820	44°	84°	57°	61.92	7.08	68°	100.13	+0.25	+0.0157	1080.80
4-29-74	0900	43°	80°	72°	61.97	7.13	68°	100.09	+0.21	+0.0132	1072.85
5-13-74	0800	48°	88°	55°	61.50	6.66	64°	100.11	+0.23	+0.0144	1074.44
5-28-74	0945	44°	98°	58°	62.17	7.33	70°	100.11	+0.23	+0.0144	1074.67
6-10-74	0830	48°	86°	61°	62.00	7.16	68°	100.08	+0.20	+0.0125	1073.98
6-24-74	0900	49°	92°	78°	62.75	7.91	76°	100.12	+0.24	+0.0150	1073.12
6-27-74	0830	63°	96°	78°	63.20	8.36	80°	100.11	+0.23	+0.0144	1072.75
7-8-74	0845	53°	98°	61°	62.34	7.50	72°	100.08	+0.20	+0.0125	1071.81
7-22-74	0930	54°	98°	73°	62.91	8.07	77°	100.10	+0.22	+0.0138	1071.72
8-6-74	0900	61°	96°	71°	62.97	8.13	78°	100.10	+0.22	+0.0138	1071.68
8-20-74	0830	55°	91°	60°	62.62	7.78	74°	100.10	+0.22	+0.0138	1071.65
9-3-74	0830	53°	95°	69°	63.14	8.30	79°	100.11	+0.23	+0.0144	1071.60
9-16-74	0815	53°	97°	62°	62.83	7.99	76°	100.09	+0.21	+0.0132	1071.58
9-30-74	0930	51°	98°	73°	62.76	7.92	76°	100.10	+0.22	+0.0138	1071.57
10-11-74	0920	49°	88°	60°	62.02	7.18	~~69°~~ 68°	100.09	+0.21	+0.0132	1071.58
10-25-74	0930 PST	47°	97°	65°	62.03	7.19	64°	100.11	+0.23	+0.0144	1071.37
11-11-74	0845 PST	42°	83°	72°	61.90	7.06	67°	100.13	+0.25	+0.0157	1060.25
11-25-74	0835 PST	42°	91°	56°	61.29	6.45	62°	100.10	+0.22	+0.0138	1060.86
12-4-74	0945 PST	40°	80°	55°	60.97	6.03	58°	100.11	+0.23	+0.0144	1065.26
12-23-74	0830 PST	38°	78°	44°	60.61	5.77	55°	100.12	+0.24	+0.0150	1065.39
1-6-75	0900 Pac. Std. Time	35°	66°	56°	60.65	5.81	56°	100.29	+0.41	+0.0257	1066.14
1-20-75	8:15 A	44°	85°	57°	61.33	6.49	62°	100.11	+0.23	+0.0144	
2-3-75	8:00 A	32°	86°	44°	60.16	5.32	51°	100.10	+0.22	+0.0138	
2-18-75	8:45 A	35°	68°	51°	60.40	5.56	53°	100.10	+0.22	+0.0138	
2-21-75	8:00 A	37°	64°	49°	60.56	5.72	55°	100.09	+0.21	+0.0132	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2aL

Meter No. J-13

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000627 inches per 0.01% ratio change

Resistance ratio at initial reading 100.04 per cent *

Resistance ratio, meter closed: 96.0 per cent

Resistance ratio, meter open: 104.0 per cent

Meter resistance at 0°F, corrected for leads 54.84 ohms

Change in temperature per ohm change in resistance 9.56 °F

*Adjusted resistance ratio after 9-28-72 (99.88).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
2-26-75	8:00 A	41°	78°	47°	61.02	6.18	59°	100.11	+0.23	+0.0144	
3-4-75	8:00 A	40°	77°	57°	61.22	6.38	61°	100.11	+0.23	+0.0144	
3-7-75	11:00 P		Full	reservoir	spilling over notch						
3-8-75	1:00 P	47°	69°	53°	61.44	6.60	63°	100.10	+0.22	+0.0138	
3-10-75	12:00 N	42°	58°	49°	61.36	6.52	62°	100.09	+0.21	+0.0132	
3-12-75	7:30 A	37°	57°	42°	61.19	6.35	61°	100.10	+0.22	+0.0138	
3-24-75	7:00 A	35°	72°	47°	60.94	6.10	58°	100.11	+0.23	+0.0144	
4-4-75	7:00 A	37°	72°	47°	61.14	6.30	60°	100.10	+0.22	+0.0138	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-3L

Meter No. J-14

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000681 inches per 0.01% ratio change

Resistance ratio at initial reading 100.14 per cent *

Resistance ratio, meter closed: 95.2 per cent

Resistance ratio, meter open: 102.9 per cent

Meter resistance at 0°F, corrected for leads 56.75 ohms

Change in temperature per ohm change in resistance 9.61 °F

*Adjusted resistance ratio after 9-28-72 (98.231).

Date	Daylight Savings ~~Pac Std~~ Time	Temperature Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-16-74	0820	44°	84°	57°	62.72	5.97	57°	100.16	+ 1.929	+ 0.1314	1080.80
4-29-74	0900	43°	80°	72°	62.99	6.24	60°	100.10	+ 1.869	+ 0.1273	1072.85
5-13-74	0800	48°	88°	55°	63.20	6.45	62°	100.11	+ 1.879	+ 0.1280	1074.44
5-28-74	0945	44°	98°	56°	63.43	6.68	64°	100.11	+ 1.879	+ 0.1280	1077.67
6-10-74	0830	48°	86°	61°	63.64	6.89	66°	100.10	+ 1.869	+ 0.1273	1073.98
6-24-74	0900	49°	92°	78°	64.14	7.39	71°	100.12	+ 1.889	+ 0.1286	1073.12
6-27-74	0830	63°	96°	78°	64.20	7.45	72°	100.14	+ 1.909	+ 0.1300	1072.75
7-8-74	0845	53°	98°	61°	64.24	7.49	72°	100.12	+ 1.889	+ 0.1286	1071.81
7-22-74	0930	54°	98°	73°	64.37	7.62	73°	100.12	+ 1.889	+ 0.1286	1071.72
8-6-74	0900	61°	96°	71°	64.62	7.87	76°	100.13	+ 1.899	+ 0.1293	1071.68
8-20-74	0830	55°	91°	60°	64.29	7.54	72°	100.15	+ 1.919	+ 0.1307	1071.65
9-3-74	0830	53°	95°	69°	64.28	7.46	72°	100.16	+ 1.929	+ 0.1314	1071.60
9-16-74	0815	53°	97°	62°	64.26	7.51	72°	100.26	+ 2.029	+ 0.1382	1071.58
9-30-74	0930	51°	98°	73°	64.05	7.30	70°	100.17	+ 1.939	+ 0.1320	1071.57
10-11-74	0920	49°	88°	60°	63.69	6.94	67°	100.15	+ 1.919	+ 0.1307	1071.58
10-25-74	PST 0930	47°	97°	65°	63.98	6.73	65°	100.15	+ 1.919	+ 0.1307	1071.37
11-11-74	PST 0845	42°	83°	72°	62.95	6.20	60°	100.22	+ 1.989	+ 0.1354	1060.25
11-25-74	PST 0835	42°	91°	56°	62.56	5.81	56°	100.21	+ 1.979	+ 0.1348	1060.86
12-9-74	PST 0945	40°	80°	55°	62.30	5.55	53°	100.24	+ 2.009	+ 0.1368	1065.26
12-23-74	PST 0830	38°	78°	44°	62.10	5.35	51°	100.24	+ 2.009	+ 0.1368	1065.39
1-6-75	PST 0900	35°	66°	56°	61.70	4.95	48°	100.24	+ 2.009	+ 0.1368	1066.14
	Pac. Std Time										
1-20-75	8:15 A	44°	85°	57°	61.92	5.17	50°	100.24	+ 2.009	+ 0.1368	
2-3-75	8:00 A	32°	86°	44°	61.67	4.92	47°	100.23	+ 1.999	+ 0.1361	
2-18-75	8:45 A	35°	68°	51°	61.96	5.21	50°	100.22	+ 1.989	+ 0.1354	
2-21-75	8:00 A	37°	64°	49°	61.96	5.21	50°	100.22	+ 1.989	+ 0.1354	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-3L

Meter No. J-14

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000681 inches per 0.01% ratio change

Resistance ratio at initial reading 100.14 per cent *

Resistance ratio, meter closed: 95.2 per cent

Resistance ratio, meter open: 102.9 per cent

Meter resistance at 0°F, corrected for leads 56.75 ohms

Change in temperature per ohm change in resistance 9.61 °F

*Adjusted resistance ratio after 9-28-72 (98.231).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
2-26-75	8:00 A	41°	78°	47°	61.92	5.17	50°	100.21	+1.979	+0.1348	
3-4-75	8:00 A	40°	77°	57°	62.12	5.37	52°	100.21	+1.979	+0.1348	
3-7-75	11:00 P		Full	reservior spilling over notch							
-8-75	1:00 P	47°	64°	53°	61.99	5.24	50°	100.11	+1.879	+0.1280	
10-75	12:00 N	42°	58°	49°	6198	5.23	50°	100.12	+1.889	+0.1286	
3-12-75	7:30 A	37°	57°	42°	61.95	5.20	50°	100.15	+1.919	+0.1307	
3-24-75	7:00 A	35°	72°	47°	62.29	5.54	53°	100.18	+1.949	+0.1327	
4-4-75	7:00 A	37°	72°	47°	62.15	5.40	52°	100.16	+1.929	+0.1314	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-1R

Meter No. M-6

Sheet No.

Original meter-cleaned & reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001158 inches per 0.01% ratio change

Resistance ratio at initial reading 100.17 per cent *

Resistance ratio, meter closed: 98.0 per cent

Resistance ratio, meter open: 103.6 per cent

Meter resistance at 0°F, corrected for leads 49.76 ohms

Change in temperature per ohm change in resistance 10.88 °F

*Adjusted resistance ratio after 9-28-72 (100.861).

	Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
checked WCM	2/28/73	1:30 P	43°	60°	54°	54.63	4.87	53°	100.77	-0.091	-0.0105	1087.10
	3/9/73	10:30 A	39°	56°	53°	54.24	4.48	49°	100.81	-0.051	-0.0059	1068.78
	3/23/73	8:45 A	38°	56°	50°	54.00	4.24	46°	100.81	-0.051	-0.0059	1072.73
	4/4/73	8:00 A	41°	60°	53°	54.31	4.55	50°	100.82	-0.041	-0.0047	1072.29
	4/18/73	9:45 A	46°	66°	65°	54.41	4.65	51°	100.78	-0.081	-0.0094	1072.29
	5/2/73	7:30 A	46°	71°	59°	54.74	4.98	54°	100.76	-0.101	-0.0117	1071.86
	5/16/73	9:00 A	48°	76°	64°	55.20	5.44	59°	100.72	-0.141	-0.0163	1072.12
WCM	5/30/73	8:00 A	50°	94°	60°	55.39	5.63	61°	100.64	-0.221	-0.0256	1077.18
	6/12/73	8:00 A	53°	94°	64°	55.32	5.56	60°	100.61	-0.251	-0.0291	1080.82
	6/25/73	7:30 A	50°	100°	74°	56.25	6.49	71°	100.49	-0.371	-0.0430	1081.40
	7/5/73	7:00 A	50°	100°	71°	55.97	6.21	68°	100.44	-0.421	-0.0488	1081.71
	7/16/73	8:30 A	56°	85°	64°	55.54	5.78	63°	100.44	-0.421	-0.0488	1081.77
	8/1/73	6:30 A	54°	94°	68°	55.95	6.19	67°	100.36	-0.501	-0.0580	1080.96
	8/14/73	8:00 A	55°	92°	70°	55.93	6.17	67°	100.33	-0.531	-0.0615	1080.20
	8/28/73	8:30 A	52°	94°	67°	55.57	5.81	63°	100.31	-0.551	-0.0638	1080.02
	9/11/73	8:00 A	54°	85°	60°	55.43	5.67	62°	100.31	-0.551	-0.0638	1079.97
	10/3/73	8:00 A	46°	90°	54°	54.71	4.95	54°	100.33	-0.531	-0.0615	1079.93
WCM	10/15/73	9:00 A	49°	84°	70°	55.59	5.83	63°	100.32	-0.541 -0.547	-0.0625 -0.0633	1079.82
	10/29/73	8:30 A	48°	86°	66°	55.48	5.72	62°	100.33	-0.531	-0.0615	1079.91
	11/12/73	9:30 A	40°	80°	60°	55.19	5.43	59°	100.34	-0.521	-0.0603	1079.96
	11/27/73	7:30 A	35°	64°	42°	53.73	3.97	43°	100.50	-0.361	-0.0418	1062.05
	12/10/73	I received orders not to go past 2nd bay of the walk way. Readings of the Strain gages on the right abutment have been temporarily discontinued due to hazardous condition of the walk way. Marion L Hansen										
	2-21-75	8:00 A	—	—	48°	54.03	4.27	46°	100.70	-0.161	-0.0186	1072.03
	2-21-75	9:00 A	Leads being extended to left abutment side.									

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Leads extended 2-26-75

Drill-hole No DH - 1R

Meter No. M - 6

Sheet No.

Calibrations:

Calibration constant, corrected for leads .001216 inches per 0.01% ratio change

Resistance ratio at initial reading 100.57 per cent

Resistance ratio, meter closed: 98.0 per cent

Resistance ratio, meter open: 103.6 per cent

Meter resistance at 0°F, corrected for leads 52.19 ohms

Change in temperature per ohm change in resistance 10.88 °F

Adjusted resistance ratio after 2-26-75 (100.723)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
		After	Leads	extended							
2-26-75	8:00 A	—	—	49°	56.83	4.64	50°	100.57	-0.153	-0.0186	1074.25
3-4-75	8:00 A	—	—	55°	57.20	5.01	55°	100.56	-0.163	-0.0198	1075.84
3-7-75	11:00 P		Full	reservoir	spilling	over notch					
3-8-75	1:00 P	—	—	53°	57.31	5.12	56°	100.52	-0.203	-0.0247	1096.10
3-10-75	12:00 N	—	—	51°	56.94	4.75	52°	100.53	-0.193	-0.0235	1090.74
3-12-75	7:30 A	—	—	45°	56.63	4.44	48°	100.57	-0.153	-0.0186	1073.10
3-24-75	7:00 A	—	—	48°	56.85	4.66	51°	100.59	-0.133	-0.0162	1071.93
4-4-75	7:00 A	—	—	48°	56.84	4.65	51°	100.58	-0.143	-0.0174	1079.40

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2R
Meter No. M-1
Sheet No.

Original meter-cleaned & reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001145 inches per 0.01% ratio change
Resistance ratio at initial reading 100.21 per cent *
Resistance ratio, meter closed: 97.9 per cent
Resistance ratio, meter open: 103.0 per cent
Meter resistance at 0°F, corrected for leads 50.07 ohms
Change in temperature per ohm change in resistance 10.95 °F
*Adjusted resistance ratio after 9-28-72 (100.079).

	Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
checked wcm	2/28/73	1:30 P	43°	60°	54°	54.81	4.74	52°	100.21	+0.131	+0.0150	
	3/9/73	10:30 A	39°	56°	53°	54.54	4.47	49°	100.25	+0.171	+0.0196	
	3/23/73	8:45 A	38°	56°	50°	54.34	4.27	47°	100.27	+0.191	+0.0219	
	4/4/73	8:00 A	41°	60°	53°	54.50	4.43	49°	100.25	+0.171	+0.0196	
	4/18/73	9:45 A	46°	66°	65°	54.69	4.63	51°	100.24	+0.161	+0.0184	
	5/2/73	7:30 A	46°	71°	59°	54.92	4.85	53°	100.24	+0.161	+0.0184	
wcm	5/16/73	9:00 A	48°	76°	64°	55.41	5.34	58°	100.21	+0.131	+0.0150	
	5/30/73	8:00 A	50°	94°	60°	55.52	5.45	60°	100.18	+0.101	+0.0116	
	6/12/73	8:00 A	53°	94°	64°	55.50	5.43	59°	100.19	+0.111	+0.0127	
	6/25/73	7:30 A	50°	100°	74°	56.24	6.17	68°	100.16	+0.081	+0.0093	
	7/5/73	7:00 A	50°	100°	71°	56.04	5.97	65°	100.17	+0.091	+0.0104	
	7/16/73	8:30 A	56°	85°	64°	55.69	5.62	62°	100.19	+0.111	+0.0127	
	8/1/73	6:30 A	54°	94°	68°	56.04	5.97	65°	100.17	+0.091	+0.0104	
	8/14/73	8:00 A	55°	92°	70°	56.03	5.96	65°	100.19	+0.111	+0.0127	
	8/28/73	8:30 A	52°	94°	67°	55.74	5.67	62°	100.21	+0.131	+0.0150	
	9/11/73	8:00 A	54°	85°	60°	55.60	5.53	61°	100.20	+0.121	+0.0139	
	10/3/73	8:00 A	46°	90°	54°	54.99	4.92	54°	100.22	+0.141	+0.0161	
wcm	10/15/73	9:00 A	49°	84°	70°	55.72	5.65	62°	100.22	+0.141	+0.0161	
	10/29/73	8:30 A	48°	86°	66°	55.64	5.57	61°	100.21	+0.131	+0.0150	
	11/12/73	9:30 A	40°	80°	60°	55.38	5.31	58°	100.22	+0.141	+0.0161	
	11/27/73	7:30 A	35°	64°	42°	54.10	4.03	44°	100.28	+0.201	+0.0230	
	2-21-75	8:00 A	—	—	48°	54.34	4.27	47°	100.26	+0.181	+0.0207	
	2-21-75	9:00 A		Leads	being	extended to	left abutment side.					

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Leads extended 2-26-75

Drill-hole No DH - 2R

Meter No. M - 1

Sheet No.

Calibrations:

Calibration constant, corrected for leads .001202 inches per 0.01% ratio change

Resistance ratio at initial reading 100.00 per cent

Resistance ratio, meter closed: 97.9 per cent

Resistance ratio, meter open: 103.0 per cent

Meter resistance at 0°F, corrected for leads 52.73 ohms

Change in temperature per ohm change in resistance 10.95 °F

Adjusted resistance ratio after 2-26-75 (99.828)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
		After	leads	extended							
2-26-75	8:00 A	—	—	49°	57.18	4.45	49°	100.00	+ 0.172	+0.0207'	
3-4-75	8:00 A	—	—	55°	57.50	4.77	52°	99.98	+ 0.152	+0.0183'	
3-7-75	11:00 P		Full	reservoir	spilling	over notch					
3-8-75	1:00 P	—	—	53°	57.54	4.81	53°	99.95	+ 0.122	+0.0147'	
3-10-75	12:00 N	—	—	51°	57.17	4.44	49°	99.96	+ 0.132	+0.0159'	
3-12-75	7:30 A	—	—	45°	56.97	4.24	46°	99.99	+ 0.162	+0.0195'	
3-24-75	7:00 A	—	—	48°	57.16	4.43	49°	99.99	+ 0.162	+0.0195'	
4-4-75	7:00 A	—	—	48°	57.16	4.43	49°	99.98	+ 0.152	+0.0183'	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2aR

Meter No. J-15

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000639 inches per 0.01% ratio change

Resistance ratio at initial reading 100.52 per cent *

Resistance ratio, meter closed: 96.1 per cent

Resistance ratio, meter open: 104.0 per cent

Meter resistance at 0°F, corrected for leads 54.63 ohms

Change in temperature per ohm change in resistance 9.65 °F

*Adjusted resistance ratio after 9-28-72 (100.082).

	Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
	2/28/73	1:30 P	43°	60°	54°	60.50	5.87	57°	100.56	+0.478	+0.0305	
	3/9/73	10:30 A	39°	56°	53°	60.20	5.57	54°	100.63	+0.548	+0.0350	
Checked WCM	3/23/73	8:45 A	38°	56°	50°	60.16	5.53	53°	100.55	+0.468	+0.0299	
	4/4/73	8:00 A	41°	60°	53°	60.20	5.57	54°	100.57	+0.488	+0.0312	
	4/18/73	9:45 A	46°	66°	65°	60.33	5.70	55°	100.56	+0.478	+0.0305	
	5/2/73	7:30 A	46°	71°	59°	60.44	5.81	56°	100.56	+0.478	+0.0305	
	5/16/73	9:00 A	48°	76°	64°	60.66	6.03	58°	100.56	+0.478	+0.0305	
WCM	5/30/73	8:00 A	50°	94°	60°	60.84	6.21	60°	100.56	+0.478	+0.0305	
	6/12/73	8:00 A	53°	94°	64°	60.88	6.25	60°	100.56	+0.478	+0.0305	
	6/25/73	7:30 A	50°	100°	74°	61.12	6.49	63°	100.56	+0.478	+0.0305	
	7/5/73	7:00 A	50°	100°	71°	61.13	6.50	63°	100.56	+0.478	+0.0305	
	7/16/73	8:30 A	56°	85°	64°	61.05	6.42	62°	100.56	+0.478	+0.0305	
	8/1/73	6:30 A	54°	94°	68°	61.17	6.54	63°	100.56	+0.478	+0.0305	
	8/14/73	8:00 A	55°	92°	70°	61.17	6.54	63°	100.57	+0.488	+0.0312	
	8/28/73	8:30 A	52°	94°	67°	61.18	6.55	63°	100.56	+0.478	+0.0305	
	9/11/73	8:00 A	54°	85°	60°	61.15	6.52	63°	100.56	+0.478	+0.0305	
	10/3/73	8:00 A	46°	90°	54°	61.06	6.43	62°	100.56	+0.478	+0.0305	
WCM	10/15/73	9:00 A	49°	84°	70°	61.14	6.51	63°	100.56	+0.478	+0.0305	
	10/29/73	8:30 A	48°	86°	66°	61.14	6.51	63°	100.56	+0.478	+0.0305	
	11/12/73	9:30 A	40°	80°	60°	61.07	6.44	62°	100.56	+0.478	+0.0305	
	11/27/73	7:30 A	35°	64°	42°	59.61	4.98	48°	100.54	+0.458	+0.0293	
	2-21-75	8:00 A	—	—	48°	60.20	5.57	54°	100.65	+0.568	+0.0363	
	2-21-75	9:00 A		Leads	being	extended to	left abutment side.					

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH - 2aR

Meter No. J-15

Sheet No.

Leads extended 2-26-75

Calibrations:

Calibration constant, corrected for leads .000669 inches per 0.01% ratio change

Resistance ratio at initial reading 100.37 per cent

Resistance ratio, meter closed: 96.1 per cent

Resistance ratio, meter open: 104.0 per cent

Meter resistance at 0°F, corrected for leads 57.46 ohms

Change in temperature per ohm change in resistance 9.65 °F

Adjusted resistance ratio after 2-26-75 (99.827)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
		After	leads	extended							
2-26-75	8:00 A	—	—	49°	63.16	5.70	55°	100.37	+0.543	+0.0363	
3-4-75	8:00 A	—	—	55°	63.31	5.85	56°	100.40	+0.573	+0.0383	
3-7-75	11:00 P		Full	reservoir	spilling	over notch					
3-8-75	1:00 P	—	—	53°	63.46	6.00	58°	100.40	+0.573	+0.0383	
3-10-75	12:00 N	—	—	51°	63.35	5.89	57°	100.42	+0.593	+0.0397	
3-12-75	7:30 A	—	—	45°	63.10	5.64	54°	100.41	+0.583	+0.0390	
3-24-75	7:00 A	—	—	48°	62.98	5.52	53°	100.40	+0.573	+0.0383	
4-4-75	7:00 A	—	—	48°	63.10	5.64	54°	100.40	+0.573	+0.0383	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-3R

Meter No. J-16

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000646 inches per 0.01% ratio change

Resistance ratio at initial reading 100.13 per cent *

Resistance ratio, meter closed: 96.7 per cent

Resistance ratio, meter open: 104.6 per cent

Meter resistance at 0°F, corrected for leads 55.18 ohms

Change in temperature per ohm change in resistance 9.66 °F

*Adjusted resistance ratio after 9-28-72 (100.13).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
2/28/73	1:30 P	43°	60°	54°	60.75	5.57	54°	100.24	+0.11	+0.0071	
3/9/73	10:30 A	39°	56°	53°	60.51	5.33	51°	100.31	+0.18	+0.0116	
3/23/73	8:45 A	38°	56°	50°	60.33	5.15	50°	100.31	+0.18	+0.0116	
4/4/73	8:00 A	41°	60°	53°	60.38	5.20	50°	100.31	+0.18	+0.0116	
4/18/73	9:45 A	46°	66°	~~56°~~ 65°	60.65	5.47	53°	100.28	+0.15	+0.0097	
5/2/73	7:30 A	46°	71°	59°	60.89	5.71	55°	100.26	+0.13	+0.0084	
5/16/73	9:00 A	48°	76°	64°	61.46	6.28	61°	100.21	+0.08	+0.0052	
5/30/73	8:00 A	50°	94°	60°	61.67	6.49	63°	100.09	-0.04	-0.0026	
6/12/73	8:00 A	53°	94°	64°	61.88	~~6.70~~ 6.49	~~65°~~ 63°	100.04	-0.09	-0.0058	
6/25/73	7:30 A	50°	100°	74°	62.36	7.18	69°	99.96	-0.17	-0.0110	
7/5/73	7:00 A	50°	100°	71°	62.28	7.10	69°	99.94	-0.19	-0.0123	
7/16/73	8:30 A	56°	85°	64°	61.93	6.75	65°	99.95	-0.18	-0.0116	
8/1/73	6:30 A	54°	94°	68°	62.28	7.10	69°	99.93	-0.20	-0.0129	
8/14/73	8:00 A	55°	92°	70°	62.32	7.14	69°	99.93	-0.20	-0.0129	
8/28/73	8:30 A	52°	94°	67°	62.00	6.82	66°	99.95	-0.18	-0.0116	
9/11/73	8:00 A	54°	85°	60°	61.81	6.63	64°	99.97	-0.16	-0.0103	
10/3/73	8:00 A	46°	90°	54°	61.19	6.01	58°	100.03	-0.10	-0.0065	
10/15/73	9:00 A	49°	84°	70°	61.86	6.68	65°	100.03	-0.10	-0.0065	
10/29/73	8:30 A	48°	86°	66°	61.69	6.51	63°	100.04	-0.09	-0.0058	
11/12/73	9:30 A	40°	80°	60°	61.40	6.22	60°	100.06	-0.07	-0.0045	
11/27/73	7:30 A	35°	64°	42°	60.02	4.84	47	100.28	+0.15	+0.0097	
2-21-75	8:00 A	—	—	48°	60.18	5.00	48°	100.36	+0.23	+0.0149	
2-21-75	9:00 A		Leads	being	extended to	left abutment side.					

Checked WCM

WCM

WCM

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Leads extended 2-26-75

Drill-hole No DH - 3R

Meter No. J - 16

Sheet No.

Calibrations:

Calibration constant, corrected for leads .000678 inches per 0.01% ratio change

Resistance ratio at initial reading 100.38 per cent

Resistance ratio, meter closed: 96.7 per cent

Resistance ratio, meter open: 104.6 per cent

Meter resistance at 0°F, corrected for leads 58.29 ohms

Change in temperature per ohm change in resistance 9.66 °F

Adjusted resistance ratio after 2-26-75 (100.16)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
		After	leads	extended							
2-26-75	8:00 A	—	—	49°	63.37	5.08	49°	100.38	+0.22	+0.0149	
3-4-75	8:00 A	—	—	55°	63.70	5.41	52°	100.35	+0.19	+0.0129	
3-7-75	11:00 P		Full	reservior	Spilling	over notch					
3-8-75	11:00 P	—	—	53°	63.57	5.28	51°	100.23	+0.07	+0.0047	
3-10-75	12:00 N	—	—	51°	63.39	5.10	49°	100.25	+0.09	+0.0061	
3-12-75	7:30 A	—	—	45°	63.21	4.92	47°	100.33	+0.17	+0.0115	
3-24-75	7:00 A	—	—	48°	63.33	5.04	49°	100.36	+0.20	+0.0136	
4-4-75	7:00 A	—	—	48°	63.35	5.06	49°	100.34	+0.18	+0.0122	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-1L

Meter No. J-12

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000642 inches per 0.01% ratio change

Resistance ratio at initial reading 100.06 per cent *

Resistance ratio, meter closed: 95.8 per cent

Resistance ratio, meter open: 103.7 per cent

Meter resistance at 0°F, corrected for leads 55.05 ohms

Change in temperature per ohm change in resistance 9.61 °F

*Adjusted resistance ratio after 9-28-72 (103.409)

Date	Daylight Savings ~~Pac Std~~ Time	Temperature Min.	Max.	At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-16-74	DST 0820	44°	84°	57°	60.91	5.86	56°	99.23	-4.179	-0.2683	1080.80
4-29-74	DST 0900	43°	80°	72°	61.31	6.32	61°	99.21	-4.199	-0.2696	1072.85
5-13-74	DST 0800	48°	88°	55°	60.82	5.77	55°	98.99	-4.419	-0.2837	1074.44
5-28-74	0945	44°	98°	58°	61.44	6.39	61°	98.95	-4.459	-0.2863	1074.67
6-10-74	0830	48°	86°	61°	61.38	6.33	61°	98.99	-4.419	-0.2837	1073.98
6-24-74	0900	49°	92°	78°	62.43	7.38	71°	98.87	-4.539	-0.2914	1073.12
6-27-74	0830	63°	96°	78°	62.42	7.37	71°	98.79	-4.619	-0.2965	1072.75
~~7-8-74~~	~~0845~~	~~53°~~	~~98°~~	~~61°~~	~~61.98~~			~~98.09~~			~~1071.81~~
7-8-74	0845	53°	98°	61°	61.51	6.46	62°	98.70	-4.709	-.3023	1071.81
7-22-74	0930	54°	98°	73°	62.19	7.14	69°	98.53	-4.879	-.3132	1071.72
8-6-74	0900	61°	96°	71°	62.16	7.11	68°	98.42	-4.989	-.3203	1071.68
8-20-74	0830	55°	91°	60°	61.53	6.48	62°	98.46	-4.949	-.3177	1071.65
9-3-74	0830	53°	95°	69°	62.26	7.21	69°	98.29	-5.119	-.3286	1071.60
9-16-74	0815	53°	97°	62°	61.60	6.55	63°	98.26	-5.149	-.3306	1071.58
9-30-74	0930	51°	98°	73°	61.98	6.93	67°	98.09	-5.319	-.3415	1071.57
10-14-74	0920	49°	88°	60°	60.82	5.77	55°	98.04	-5.369	-.3447	1071.58
10-25-74	0930	47°	97°	65°	61.27	6.22	60°	98.07	-5.339	-.3428	1071.37
11-11-74	PST 0845	42°	83°	72°	61.38	6.33	61°	98.02	-5.389	-.3460	1060.25
11-25-74	PST 0835	42°	91°	56°	60.25	5.20	50°	98.05	-5.359	-.3440	1060.86
12-9-74	PST 0945	40°	80°	55°	60.10	5.05	49°	98.08	-5.329	-.3421	1065.26
12-23-74	PST 0830	38°	78°	44°	59.00	3.95	38°	97.98	-5.429	-.3485	1065.39
1-6-75	PST 0900	35°	66°	56°	60.26	5.21	50°	98.03	-5.379	-.3453	1066.14
	Pac Std Time										
1-20-75	8:15 A	44°	85°	57°	60.76	5.71	55°	97.87	-5.539	-0.3556	1065.35
2-3-75	8:00 A	32°	86°	44°	59.48	4.43	43°	98.04	-5.369	-0.3447	1067.52
2-18-75	8:45 A	35°	68°	51°	59.37	4.32	42°	97.92	-5.489	-0.3524	1070.02
2-21-75	8:00 A	37°	64°	49°	59.77	4.72	46°	97.88	-5.529	-0.3550	1072.03

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2L

Meter No. M-3

Sheet No.

Original meter-cleaned & reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01% ratio change

Resistance ratio at initial reading 100.20 per cent *

Resistance ratio, meter closed: 98.6 per cent

Resistance ratio, meter open: 104.2 per cent

Meter resistance at 0°F, corrected for leads 49.67 ohms

Change in temperature per ohm change in resistance 10.95 °F

*Adjusted resistance ratio after 9-28-72 (100.06).

Date	Daylight Savings ~~Pac Std~~ Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-16-74	0820	44°	84°	57°	55.67	6.00	66°	100.33	+ .27	+ 0.0290	1080.80
4-29-74	0900	43°	80°	72°	55.80	6.13	67°	100.31	+ .25	+ 0.0268	1072.85
5-13-74	0800	48°	88°	55°	55.36	5.69	62°	100.33	+ .27	+ 0.0290	1074.44
5-28-74	0945	44°	98°	58°	55.95	6.28	69°	100.28	+ .22	+ 0.0236	1074.67
6-10-74	0830	48°	86°	61°	55.82	6.15	67°	100.32	+ .26	+ 0.0279	1073.98
6-24-74	0900	49°	92°	78°	56.58	6.91	76°	100.33	+ .27	+ 0.0290	1073.12
6-27-74	0830	63°	96°	78°	56.72	7.05	77°	100.28	+ .22	+ 0.0236	1072.75
7-8-74	0845	53°	98°	61°	56.09	6.42	70°	100.23	+ .17	+ 0.0182	1071.81
7-22-74	0930	54°	98°	73°	56.63	6.96	76°	100.21	+ .15	+ 0.0161	1071.72
8-6-74	0900	61°	96°	71°	56.65	6.98	76°	100.19	+ .13	+ 0.0139 ~~+0.0140~~	1071.68
8-20-74	0830	55°	91°	60°	56.13	6.46	71°	100.31	+ .25	+ 0.0268	1071.65
9-3-74	0830	53°	95°	69°	56.76	7.09	78°	100.18	+ .12	+ 0.0129	1071.60
9-16-74	0815	53°	97°	62°	56.45	6.78	74°	100.15	+ .09	+ 0.0010	1071.58
9-30-74	0930	51°	98°	73°	56.47	6.80	74°	100.18	+ .12	+ 0.0129	1071.57
10-11-74	0920	49°	88°	60°	55.70	6.03	66°	100.17	+ .11	+ 0.0118	1071.58
10-25-74	0930 PST	47°	97°	65°	55.78	6.11	67°	100.23	+ .17	+ 0.0182	1071.37
11-11-74	0845 PST	42°	83°	72°	55.71	6.04	66°	100.24	+ .18	+ 0.0193	1060.25
11-25-74	0835 PST	42°	91°	56°	55.02	5.35	59°	100.25	+ .19	+ 0.0204	1060.86
12-9-74	0945 PST	40°	80°	55°	54.77	5.10	56°	100.26	+ .20	+ 0.0215	1065.26
12-23-74	0830 PST	38°	78°	44°	54.39	4.72	52°	100.29	+ .23	+ 0.0247	1065.39
1-6-75	0900 PST	35°	66°	56°	54.60	4.93	54°	100.30	+ .24	+ 0.0258	1066.14
	Pac. Std Time										
1-20-75	8:15 A	44°	85°	57°	55.10	5.43	59°	100.28	+ 0.22	+ 0.0236	
2-3-75	8:00 A	32°	86°	44°	54.12	4.45	49°	100.29	+ 0.23	+ 0.0247	
2-18-75	8:45 A	35°	68°	51°	54.35	4.68	51°	100.28	+ 0.22	+ 0.0236	
2-21-75	8:00 A	37°	64°	49°	54.48	4.81	53°	100.29	+ 0.23	+ 0.0247	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2aL

Meter No. J-13

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000627 inches per 0.01% ratio change

Resistance ratio at initial reading 100.04 per cent *

Resistance ratio, meter closed: 96.0 per cent

Resistance ratio, meter open: 104.0 per cent

Meter resistance at 0°F, corrected for leads 54.84 ohms

Change in temperature per ohm change in resistance 9.56 °F

*Adjusted resistance ratio after 9-28-72 (99.88).

Date	Daylight Savings ~~Pac Std~~ Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-16-74	0820	44°	84°	57°	61.92	7.08	68°	100.13	+0.25	+0.0157	1080.80
4-29-74	0900	43°	80°	72°	61.97	7.13	68°	100.09	+0.21	+0.0132	1072.85
5-13-74	0800	48°	88°	55°	61.50	6.66	64°	100.11	+0.23	+0.0144	1074.44
5-28-74	0945	44°	98°	58°	62.17	7.33	70°	100.11	+0.23	+0.0144	1074.67
6-10-74	0830	48°	86°	61°	62.00	7.16	68°	100.08	+0.20	+0.0125	1073.98
6-24-74	0900	49°	92°	78°	62.75	7.91	76°	100.12	+0.24	+0.0150	1073.12
6-27-74	0830	63°	96°	78°	63.20	8.36	80°	100.11	+0.23	+0.0144	1072.75
7-8-74	0845	53°	98°	61°	62.34	7.50	72°	100.08	+0.20	+0.0125	1071.81
7-22-74	0930	54°	98°	73°	62.91	8.07	77°	100.10	+0.22	+0.0138	1071.72
8-6-74	0900	61°	96°	71°	62.97	8.13	78°	100.10	+0.22	+0.0138	1071.68
8-20-74	0830	55°	91°	60°	62.62	7.78	74°	100.10	+0.22	+0.0138	1071.65
9-3-74	0830	53°	95°	69°	63.14	8.30	79°	100.11	+0.23	+0.0144	1071.60
9-16-74	0815	53°	97°	62°	62.83	7.99	76°	100.09	+0.21	+0.0132	1071.58
9-30-74	0930	51°	98°	73°	62.96	7.92	76°	100.10	+0.22	+0.0138	1071.57
10-11-74	0920	49°	88°	60°	62.02	7.18	~~68°~~	100.09	+0.21	+0.0132	1071.58
10-25-74	0930 PST	47°	97°	65°	62.03	7.19	69°	100.11	+0.23	+0.0144	1071.37
11-11-74	0845 PST	42°	83°	72°	61.90	7.06	67°	100.13	+0.25	+0.0157	1060.25
11-25-74	0835 PST	42°	91°	56°	61.29	6.45	62°	100.10	+0.22	+0.0138	1060.86
12-9-74	0945 PST	40°	80°	55°	60.87	6.03	58°	100.11	+0.23	+0.0144	1065.26
12-23-74	0830 PST	38°	78°	44°	60.61	5.77	55°	100.12	+0.24	+0.0150	1065.39
1-6-75	0900 Pac. Std. Time	35°	66°	56°	60.65	5.81	56°	100.29	+0.41	+0.0257	1066.14
1-20-75	8:15 A	44°	85°	57°	61.33	6.49	62°	100.11	+0.23	+0.0144	
2-3-75	8:00 A	32°	86°	44°	60.16	5.32	51°	100.10	+0.22	+0.0138	
2-18-75	8:45 A	35°	68°	51°	60.40	5.56	53°	100.10	+0.22	+0.0138	
2-21-75	8:00 A	37°	64°	49°	60.56	5.72	55°	100.09	+0.21	+0.0132	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-3L

Meter No. J-14

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000681 inches per 0.01% ratio change

Resistance ratio at initial reading 100.14 per cent *

Resistance ratio, meter closed: 95.2 per cent

Resistance ratio, meter open: 102.9 per cent

Meter resistance at 0°F, corrected for leads 56.75 ohms

Change in temperature per ohm change in resistance 9.61 °F

*Adjusted resistance ratio after 9-28-72 (98.231).

Date	Daylight Savings ~~Pac Std~~ Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
4-16-74	0820	44°	84°	57°	62.72	5.97	57°	100.16	+ 1.929	+ 0.1314	1080.80
4-29-74	0900	43°	80°	72°	62.99	6.24	60°	100.10	+ 1.869	+ 0.1273	1072.85
5-13-74	0800	48°	88°	55°	63.20	6.45	62°	100.11	+ 1.879	+ 0.1280	1074.44
5-28-74	0945	44°	98°	58°	63.43	6.68	64°	100.11	+ 1.879	+ 0.1280	1074.67
6-10-74	0830	48°	86°	61°	63.64	6.89	66°	100.10	+ 1.869	+ 0.1273	1073.98
6-24-74	0900	49°	92°	78°	64.14	7.39	71°	100.12	+ 1.889	+ 0.1286	1073.12
6-27-74	0830	63°	96°	78°	64.20	7.45	72°	100.14	+ 1.909	+ 0.1300	1072.75
7-8-74	0845	53°	98°	61°	64.24	7.49	72°	100.12	+ 1.889	+ 0.1286	1071.81
7-22-74	0930	54°	98°	73°	64.37	7.62	73°	100.12	+ 1.889	+ 0.1286	1071.72
8-6-74	0900	61°	96°	71°	64.62	7.87	76°	100.13	+ 1.899	+ 0.1293	1071.68
8-20-74	0830	55°	91°	60°	64.29	7.54	72°	100.15	+ 1.919	+ 0.1307	1071.65
9-3-74	0830	53°	95°	69°	64.28	7.46	72°	100.16	+ 1.929	+ 0.1314	1071.60
9-16-74	0815	53°	97°	62°	64.26	7.51	72°	100.26	+ 2.029	+ 0.1382	1071.58
9-30-74	0930	51°	98°	73°	64.05	7.30	70°	100.17	+ 1.939	+ 0.1320	1071.57
10-11-74	0920	49°	88°	60°	63.69	6.94	67°	100.15	+ 1.919	+ 0.1307	1071.58
10-25-74	0930	47°	97°	65°	63.48	6.73	65°	100.15	+ 1.919	+ 0.1307	1071.37
PST 11-11-74	PST 0845	42°	83°	72°	62.95	6.20	60°	100.22	+ 1.989	+ 0.1354	1060.25
11-25-74	PST 0835	42°	91°	56°	62.56	5.81	56°	100.21	+ 1.979	+ 0.1348	1060.86
12-9-74	PST 0945	40°	80°	55°	62.30	5.55	53°	100.24	+ 2.009	+ 0.1368	1065.26
12-23-74	PST 0830	38°	78°	44°	62.10	5.35	51°	100.24	+ 2.009	+ 0.1368	1065.39
1-6-75	PST 0900	35°	66°	56°	61.70	4.95	48°	100.24	+ 2.009	+ 0.1368	1066.14
	Pac. Std Time										
1-20-75	8:15 A	44°	85°	57°	61.92	5.17	50°	100.24	+ 2.009	+ 0.1368	
2-3-75	8:00 A	32°	86°	44°	61.67	4.92	47°	100.23	+ 1.999	+ 0.1361	
2-18-75	8:45 A	35°	68°	51°	61.96	5.21	50°	100.22	+ 1.989	+ 0.1354	
2-21-75	8:00 A	37°	64°	49°	61.96	5.21	50°	100.22	+ 1.989	+ 0.1354	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-1R

Meter No. M-6

Sheet No.

Original meter-cleaned & reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001158 inches per 0.01% ratio change

Resistance ratio at initial reading 100.17 per cent *

Resistance ratio, meter closed: 98.0 per cent

Resistance ratio, meter open: 103.6 per cent

Meter resistance at 0°F, corrected for leads 49.76 ohms

Change in temperature per ohm change in resistance 10.88 °F

*Adjusted resistance ratio after 9-28-72 (100.861).

	Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
checked WCM	2/28/73	1:30 P	43°	60°	54°	54.63	4.87	53°	100.77	-0.091	-0.0105	1087.10
	3/9/73	10:30 A	39°	56°	53°	54.24	4.48	49°	100.81	-0.051	-0.0059	1068.78
	3/23/73	8:45 A	38°	56°	50°	54.00	4.24	46°	100.81	-0.051	-0.0059	1072.73
	4/4/73	8:00 A	41°	60°	53°	54.31	4.55	50°	100.82	-0.041	-0.0047	1072.29
	4/18/73	9:45 A	46°	66°	65°	54.41	4.65	51°	100.78	-0.081	-0.0094	1072.29
	5/2/73	7:30 A	46°	71°	59°	54.74	4.98	54°	100.76	-0.101	-0.0117	1071.86
	5/16/73	9:00 A	48°	76°	64°	55.20	5.44	59°	100.72	-0.141	-0.0163	1072.12
WCM	5/30/73	8:00 A	50°	94°	60°	55.39	5.63	61°	100.64	-0.221	-0.0256	1077.18
	6/12/73	8:00 A	53°	94°	64°	55.32	5.56	60°	100.61	-0.251	-0.0291	1080.82
	6/25/73	7:30 A	50°	100°	74°	56.25	6.49	71°	100.49	-0.371	-0.0430	1081.40
	7/5/73	7:00 A	50°	100°	71°	55.97	6.21	68°	100.44	-0.421	-0.0488	1081.71
	7/16/73	8:30 A	56°	85°	64°	55.54	5.78	63°	100.44	-0.421	-0.0488	1081.77
	8/1/73	6:30 A	54°	94°	68°	55.95	6.19	67°	100.36	-0.501	-0.0580	1080.96
	8/14/73	8:00 A	55°	92°	70°	55.93	6.17	67°	100.33	-0.531	-0.0615	1080.20
	8/28/73	8:30 A	52°	94°	67°	55.57	5.81	63°	100.31	-0.551	-0.0638	1080.02
	9/11/73	8:00 A	54°	85°	60°	55.43	5.67	62°	100.31	-0.551	-0.0638	1079.97
	10/3/73	8:00 A	46°	90°	54°	54.71	4.95	54°	100.33	-0.531	-0.0615	1079.93
WCM	10/15/73	9:00 A	49°	84°	70°	55.59	5.83	63°	100.32	-0.547	-0.0633	1079.82
	10/29/73	8:30 A	48°	86°	66°	55.48	5.72	62°	100.33	-0.531	-0.0615	1079.91
	11/12/73	9:30 A	40°	80°	60°	55.19	5.43	59°	100.34	-0.521	-0.0603	1079.96
	11/27/73	7:30 A	35°	64°	42°	53.73	3.97	43°	100.50	-0.361	-0.0418	1062.05
	12/10/73	I received orders not to go past 2nd bay of the walk way. Readings of the Strain gages on the right abutment have been temporarily discontinued due to hazardous condition of the walk way										
									Marvin L Hansen			
	2-21-75	8:00 A	—	—	48°	54.03	4.27	46°	100.70	-0.161	-0.0186	1072.03
	2-21-75	9:00 A	Leads being extended to left abutment side.									

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2R
Meter No. M-1
Sheet No.

Original meter-cleaned & reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001145 inches per 0.01% ratio change
Resistance ratio at initial reading 100.21 per cent *
Resistance ratio, meter closed: 97.9 per cent
Resistance ratio, meter open: 103.0 per cent
Meter resistance at 0°F, corrected for leads 50.07 ohms
Change in temperature per ohm change in resistance 10.95 °F
*Adjusted resistance ratio after 9-28-72 (100.079).

	Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
checked WCM	2/28/73	1:30 P	43°	60°	54°	54.81	4.74	52°	100.21	+0.131	+0.0150	
	3/9/73	10:30 A	39°	56°	53°	54.54	4.47	49°	100.25	+0.171	+0.0196	
	3/23/73	8:45 A	38°	56°	50°	54.34	4.27	47°	100.27	+0.191	+0.0219	
	4/4/73	8:00 A	41°	60°	53°	54.50	4.43	49°	100.25	+0.171	+0.0196	
	4/18/73	9:45 A	46°	66°	65°	54.69	4.63	51°	100.24	+0.161	+0.0184	
	5/2/73	7:30 A	46°	71°	59°	54.92	4.85	53°	100.24	+0.161	+0.0184	
WCM	5/16/73	9:00 A	48°	76°	64°	55.41	5.34	58°	100.21	+0.131	+0.0150	
	5/30/73	8:00 A	50°	94°	60°	55.52	5.45	60°	100.18	+0.101	+0.0116	
	6/12/73	8:00 A	53°	94°	64°	55.50	5.43	59°	100.19	+0.111	+0.0127	
	6/25/73	7:30 A	50°	100°	74°	56.24	6.17	68°	100.16	+0.081	+0.0093	
	7/5/73	7:00 A	50°	100°	71°	56.04	5.97	65°	100.17	+0.091	+0.0104	
	7/16/73	8:30 A	56°	85°	64°	55.69	5.62	62°	100.19	+0.111	+0.0127	
	8/1/73	6:30 A	54°	94°	68°	56.04	5.97	65°	100.17	+0.091	+0.0104	
	8/14/73	8:00 A	55°	92°	70°	56.03	5.96	65°	100.19	+0.111	+0.0127	
	8/28/73	8:30 A	52°	94°	67°	55.74	5.67	62°	100.21	+0.131	+0.0150	
	9/11/73	8:00 A	54°	85°	60°	55.60	5.53	61°	100.20	+0.121	+0.0139	
	10/3/73	8:00 A	46°	90°	54°	54.99	4.92	54°	100.22	+0.141	+0.0161	
WCM	10/15/73	9:00 A	49°	84°	70°	55.72	5.65	62°	100.22	+0.141	+0.0161	
	10/29/73	8:30 A	48°	86°	66°	55.64	5.57	61°	100.21	+0.131	+0.0150	
	11/12/73	9:30 A	40°	80°	60°	55.38	5.31	58°	100.22	+0.141	+0.0161	
	11/27/73	7:30 A	35°	64°	42°	54.10	4.03	44°	100.28	+0.201	+0.0230	
	2-21-75	8:00 A	—	—	48°	54.34	4.27	47°	100.26	+0.181	+0.0207	
	2-21-75	9:00 A		Leads	being	extended to	left abutment side.					

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2aR

Meter No. J-15

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000639 inches per 0.01% ratio change

Resistance ratio at initial reading 100.52 per cent *

Resistance ratio, meter closed: 96.1 per cent

Resistance ratio, meter open: 104.0 per cent

Meter resistance at 0°F, corrected for leads 54.63 ohms

Change in temperature per ohm change in resistance 9.65 °F

*Adjusted resistance ratio after 9-28-72 (100.082).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
2/28/73	1:30 P	43°	60°	54°	60.50	5.87	57°	100.56	+0.478	+0.0305	
3/9/73	10:30 A	39°	56°	53°	60.20	5.57	54°	100.63	+0.548	+0.0350	
3/23/73	8:45 A	38°	56°	50°	60.16	5.53	53°	100.55	+0.468	+0.0299	
4/4/73	8:00 A	41°	60°	53°	60.20	5.57	54°	100.57	+0.488	+0.0312	
4/18/73	9:45 A	46°	66°	65°	60.33	5.70	55°	100.56	+0.478	+0.0305	
5/2/73	7:30 A	46°	71°	59°	60.44	5.81	56°	100.56	+0.478	+0.0305	
5/16/73	9:00 A	48°	76°	64°	60.66	6.03	58°	100.56	+0.478	+0.0305	
5/30/73	8:00 A	50°	94°	60°	60.84	6.21	60°	100.56	+0.478	+0.0305	
6/12/73	8:00 A	53°	94°	64°	60.88	6.25	60°	100.56	+0.478	+0.0305	
6/25/73	7:30 A	50°	100°	74°	61.12	6.49	63°	100.56	+0.478	+0.0305	
7/5/73	7:00 A	50°	100°	71°	61.13	6.50	63°	100.56	+0.478	+0.0305	
7/16/73	8:30 A	56°	85°	64°	61.05	6.42	62°	100.56	+0.478	+0.0305	
8/1/73	6:30 A	54°	94°	68°	61.17	6.54	63°	100.56	+0.478	+0.0305	
8/14/73	8:00 A	55°	92°	70°	61.17	6.54	63°	100.57	+0.488	+0.0312	
8/28/73	8:30 A	52°	94°	67°	61.18	6.55	63°	100.56	+0.478	+0.0305	
9/11/73	8:00 A	54°	85°	60°	61.15	6.52	63°	100.56	+0.478	+0.0305	
10/3/73	8:00 A	46°	90°	54°	61.06	6.43	62°	100.56	+0.478	+0.0305	
10/15/73	9:00 A	49°	84°	70°	61.14	6.51	63°	100.56	+0.478	+0.0305	
10/29/73	8:30 A	48°	86°	66°	61.14	6.51	63°	100.56	+0.478	+0.0305	
11/12/73	9:30 A	40°	80°	60°	61.07	6.44	62°	100.56	+0.478	+0.0305	
11/27/73	7:30 A	35°	64°	42°	59.61	4.98	48°	100.54	+0.458	+0.0293	
2-21-75	8:00 A	—	—	48°	60.20	5.57	54°	100.65	+0.568	+0.0363	
2-21-75	9:00 A		Leads	being	extended to	left abutment side.					

checked WEM

WEM

WEM

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-3R

Meter No. J-16

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000646 inches per 0.01% ratio change

Resistance ratio at initial reading 100.13 per cent *

Resistance ratio, meter closed: 96.7 per cent

Resistance ratio, meter open: 104.6 per cent

Meter resistance at 0°F, corrected for leads 55.18 ohms

Change in temperature per ohm change in resistance 9.66 °F

*Adjusted resistance ratio after 9-28-72 (100.13).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
2/28/73	1:30 P	43°	60°	54°	60.75	5.57	54°	100.24	+0.11	+0.0071	
3/9/73	10:30 A	39°	56°	53°	60.51	5.33	51°	100.31	+0.18	+0.0116	
3/23/73	8:45 A	38°	56°	50°	60.33	5.15	50°	100.31	+0.18	+0.0116	
4/4/73	8:00 A	41°	60°	53°	60.38	5.20	50°	100.31	+0.18	+0.0116	
4/18/73	9:45 A	46°	66°	~~56°~~ 63°	60.65	5.47	53°	100.28	+0.15	+0.0097	
5/2/73	7:30 A	46°	71°	59°	60.89	5.71	55°	100.26	+0.13	+0.0084	
5/16/73	9:00 A	48°	76°	64°	61.46	6.28	61°	100.21	+0.08	+0.0052	
5/30/73	8:00 A	50°	94°	60°	61.67	6.49	63°	100.09	-0.04	-0.0026	
6/12/73	8:00 A	53°	94°	64°	61.~~88~~ 67	~~6.70~~ 6.49	~~65°~~ 63°	100.04	-0.09	-0.0058	
6/25/73	7:30 A	50°	100°	74°	62.36	7.18	69°	99.96	-0.17	-0.0110	
7/5/73	7:00 A	50°	100°	71°	62.28	7.10	69°	99.94	-0.19	-0.0123	
7/16/73	8:30 A	56°	85°	64°	61.93	6.75	65°	99.95	-0.18	-0.0116	
8/1/73	6:30 A	54°	94°	68°	62.28	7.10	69°	99.93	-0.20	-0.0129	
8/14/73	8:00 A	55°	92°	70°	62.32	7.14	69°	99.93	-0.20	-0.0129	
8/28/73	8:30 A	52°	94°	67°	62.00	6.82	66°	99.95	-0.18	-0.0116	
9/11/73	8:00 A	54°	85°	60°	61.81	6.63	64°	99.97	-0.16	-0.0103	
10/3/73	8:00 A	46°	90°	54°	61.19	6.01	58°	100.03	-0.10	-0.0065	
10/15/73	9:00 A	49°	84°	70°	61.86	6.68	65°	100.03	-0.10	-0.0065	
10/29/73	8:30 A	48°	86°	66°	61.69	6.51	63°	100.04	-0.09	-0.0058	
11/12/73	9:30 A	40°	80°	60°	61.40	6.22	60°	100.06	-0.07	-0.0045	
11/27/73	7:30 A	35°	64°	42°	60.02	4.84	47	100.28	+0.15	+0.0097	
2-21-75	8:00 A	—	—	48°	60.18	5.00	48°	100.36	+0.23	+0.0149	
2-21-75	9:00 A		Leads	being	extended to	left abutment side.					

Checked weekly

weekly

weekly

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-1L

Meter No. J-12

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000642 inches per 0.01% ratio change

Resistance ratio at initial reading 100.06 per cent *

Resistance ratio, meter closed: 95.8 per cent

Resistance ratio, meter open: 103.7 per cent

Meter resistance at 0°F, corrected for leads 55.05 ohms

Change in temperature per ohm change in resistance 9.61 °F

*Adjusted resistance ratio after 9-28-72 (103.409)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
2/28/73	1:30 P	43°	67°	58°	61.42	6.37	61°	100.36	-3.049	-0.1957	1087.10
3/9/73	10:30 A	40°	65°	62°	60.29	5.24	50°	100.76	-2.649	-0.1701	1068.78
3/23/73	8:45 A	38°	69°	53°	59.70	4.65	45°	100.70	-2.709	-0.1739	1072.73
4/4/73	8:00 A	41°	73°	56°	60.55	5.50	53°	100.60	-2.809	-0.1803	1072.29
4/18/73	9:45 A	44°	75°	62°	60.51	5.46	52°	100.43	-2.979	-0.1912	1072.29
5/2/73	7:30 A	44°	80°	61°	60.68	5.63	54°	100.34	-3.069	-0.1970	1071.86
5/16/73	9:00 A	45°	84°	66°	61.30	6.25	60°	100.21	-3.199	-0.2054	1072.12
5/30/73	8:00 A	48°	98°	59°	61.48	6.43	62°	100.04	-3.369	-0.2163	1077.18
6/12/73	8:00 A	52°	96	60°	61.17	6.12	59°	99.90	-3.509	-0.2253	1080.82
6/25/73	7:30 A	48°	102°	74°	62.50	7.45	72°	99.66	-3.749	-0.2407	1081.40
7/5/73	7:00 A	56°	102°	64°	62.09	7.04	68°	99.60	-3.809	-0.2445	1081.71
7/16/73	8:30 A	54°	88°	63°	61.40	6.35	61°	99.62	-3.789	-0.2433	1081.77
8/1/73	6:30 A	52°	96°	66°	62.32	~~7.22~~ 7.27	~~64°~~ 70°	99.54	-3.869	-0.2484	1080.96
8/14/73	8:00 A	54°	95°	70°	62.10	7.05	68°	99.51	-3.899	-0.2503	1080.20
8/28/73	8:30 A	52°	96°	68°	61.46	6.41	62°	99.48	-3.929	-0.2522	1080.02
9/11/73	8:00 A	52°	90°	60°	61.45	6.40	62°	99.46	-3.949	-0.2535	1079.97
10/3/73	8:00 A	46°	96°	55°	60.36	5.31	51°	99.45	-3.959	-0.2542	1079.93
10/15/73	9:00 A	49°	92°	77°	61.77	6.72	65°	99.44	-3.969	-0.2548	1079.82
10/29/73	8:30 A	48°	94°	70°	61.49	6.44	62°	99.41	-3.999	-0.2567	1079.92
11/12/73	9:30 A	40°	88°	60°	61.26	6.21	60°	99.42	-3.989	-0.2561	1079.96
11/27/73	7:30 A	35°	69°	42°	59.30	4.25	41°	99.61	-3.799	-0.2439	1062.05
12/10/73	9:30 A	41°	78°	60°	60.47	5.42	52°	99.52	-3.889	-0.2497	1065.86
12/24/73	10:30 A	40°	78°	60°	60.82	5.77	55°	99.57	-3.839	-0.2465	1065.42
1/8/74	12:00 P	34°	72°	47°	59.55	4.50	43°	99.59	-3.819	-0.2452	1039.88
1/23/74	DST 9:30 A	38°	67°	48°	59.49	4.44	43°	99.55	-3.859	-0.2477	1063.71
2/5/74	DST 7:30 A	37°	76°	57°	60.86	5.81	56°	99.49	-3.919	-0.2516	1065.63
2/19/74	DST 9:30 A	38°	75°	44°	59.72	4.67	45°	99.49	-3.919	-0.2516	1073.10
3/5/74	DST 9:30 A	40°	80°	52°	59.60	4.55	44°	99.40	-4.009	-0.2574	1077.45
3/18/74	DST 9:30 A	37°	79°	53°	60.36	5.31	51°	99.39	-4.019	-0.2580	1068.38
4/3/74	DST 1300 P	42°	68°	61°	62.49	7.44	72°	99.44	-3.969	-0.2548	1075.07

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2L
Meter No. M-3
Sheet No.

Original meter-cleaned & reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01% ratio change
Resistance ratio at initial reading 100.20 per cent *
Resistance ratio, meter closed: 98.6 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.67 ohms
Change in temperature per ohm change in resistance 10.95 °F
*Adjusted resistance ratio after 9-28-72 (100.06).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
2/28/73	1:30 P	43°	67°	58°	56.03	6.36	70°	100.36	+0.30	+0.0322	
3/9/73	10:30 A	40°	65°	62°	55.96	6.29	69°	100.34	+0.28	+0.0300	
3/23/73	8:45 A	38°	69°	53°	55.82	6.15	67°	100.39	+0.33	+0.0354	
4/4/73	8:00 A	41°	73°	56°	55.25	5.58	61°	100.38	+0.32	+0.0343	
4/18/73	9:45 A	44°	75°	62°	55.11	5.44	60°	100.36	+0.30	+0.0322	
5/2/73	7:30 A	44°	80°	61°	55.32	5.65	62°	100.35	+0.29	+0.0311	
5/16/73	9:00 A	45°	84°	66°	55.74	6.07	66°	100.35	+0.29	+0.0311	
5/30/73	8:00 A	48°	98°	59°	55.98	6.31	69°	100.31	+0.25	+0.0268	
6/12/73	8:00 A	52°	96°	60°	55.85	~~6.00~~ 6.18	~~65°~~ 66°	100.32	+0.26	+0.0279	
6/25/73	7:30 A	48°	102°	74°	56.69	7.02	77°	100.30	+0.24	+0.0258	
7/5/73	7:00 A	56°	102°	64°	56.57	6.90	76°	100.26	+0.20	+0.0215	
7/16/73	8:30 A	54°	88°	63°	55.98	~~6.47~~ 6.31	~~71°~~ 69°	100.28	+0.22	+0.0236	
8/1/73	6:30 A	52°	96°	66°	56.60	6.93	76°	100.26	~~+0.22~~ +0.20	~~+0.0236~~ +0.0215	
8/14/73	8:00 A	54°	95°	70°	56.53	6.86	75°	100.26	~~+0.22~~ +0.20	~~+0.0236~~ +0.0215	
8/28/73	8:30 A	52°	96°	68°	56.19	6.52	71°	100.24	+0.18	+0.0193	
9/11/73	8:00 A	52°	60°	60°	55.97	6.30	69°	100.26	~~+0.22~~ +0.20	~~+0.0236~~ +0.0215	
10/3/73	8:00 A	46°	96°	55°	55.59	5.92	65°	100.22	+0.16	+0.0172	
10/15/73	9:00 A	49°	92°	77°	56.18	6.51	71°	100.27	+0.21	+0.0225	
10/29/73	8:30 A	48°	94°	70°	56.01	6.34	69°	100.28	+0.22	+0.0236	
11/12/73	9:30 A	40°	88°	60°	55.55	5.88	64°	100.29	+0.23	+0.0247	
11/27/73	7:30 A	35°	69°	42°	54.31	4.64	51°	100.32	+0.26	+0.0279	
12/10/73	9:30 A	41°	78°	60°	54.91	5.24	57°	100.35	+0.29	+0.0311	
12/24/73	10:30 A	40°	78°	60°	54.76	5.09	56°	100.36	+0.30	+0.0322	
1/8/74	12:00 P	34°	72°	47°	55.69	6.02	66°	100.29	+0.23	+0.0247	
1/23/74	DST 9:30 A	38°	67°	48°	54.33	4.66	51°	100.41	+0.35	+0.0376	
2/5/74	DST 7:30 A	37°	76°	57°	55.00	5.33	58°	100.38	+0.32	+0.0343	
2/19/74	DST 9:30 A	38°	75°	44°	54.52	4.85	53°	100.35	+0.29	+0.0311	
3/5/74	DST 9:30 A	40°	80°	52°	54.66	4.99	55°	100.37	+0.31	+0.0333	
3/18/74	DST 9:30 A	37°	79°	53°	55.11	5.44	60°	100.34	+0.28	+0.0300	
4/3/74	DST 1:00 P	42°	68°	61°	55.45	5.78	63°	100.35	+0.29	+0.0311	

Checked WCM

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WCM

WCM

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2aL
Meter No. J-13
Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000627 inches per 0.01% ratio change
Resistance ratio at initial reading 100.04 per cent *
Resistance ratio, meter closed: 96.0 per cent
Resistance ratio, meter open: 104.0 per cent
Meter resistance at 0°F, corrected for leads 54.84 ohms
Change in temperature per ohm change in resistance 9.56 °F
*Adjusted resistance ratio after 9-28-72 (99.88).

	Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
checked WM	2/28/73	1:30 P	43°	67°	58°	61.55	6.71	64°	100.24	+0.36	+0.0226	
	3/9/73	10:30 A	40°	65°	62°	61.42	6.58	63°	100.14	+0.26	+0.0163	
	3/23/73	8:45 A	38°	69°	53°	61.34	6.50	62°	100.20	+0.32	+0.0201	
	4/4/73	8:00 A	41°	73°	56°	61.39	6.55	63°	100.19	+0.31	+0.0194	
	4/18/73	9:45 A	44°	75°	62°	61.16	6.32	60°	100.10	+0.22	+0.0137	
	5/2/73	7:30 A	44°	80°	61°	61.44	6.60	63°	100.07	+0.19	+0.0119	
	5/16/73	9:00 A	45°	84°	66°	61.88	7.04	67°	100.06	+0.18	+0.0113	
WCM	5/30/73	8:00 A	48°	98°	59°	62.19	7.35	70°	100.03	+0.15	+0.0094	
	6/12/73	8:00 A	52°	96°	60°	62.02	7.18	69°	100.04	+0.16	+0.0100	
	6/25/73	7:30 A	48°	102°	74°	62.85	8.01	77°	100.05	+0.17	+0.0107	
	7/5/73	7:00 A	56°	102°	64°	62.79	7.95	76°	100.05	+0.17	+0.0107	
	7/16/73	8:30 A	54°	88°	63°	62.19	7.35	70°	100.04	+0.16	+0.0100	
	8/1/73	6:30 A	52°	96°	66°	62.80	7.96	76°	100.06	+0.18	+0.0113	
	8/14/73	8:00 A	54°	95°	70°	62.74	7.90	76°	100.06	+0.18	+0.0113	
	8/28/73	8:30 A	52°	96°	68°	62.40	7.56	72°	100.06	+0.18	+0.0113	
	9/11/73	8:00 A	52°	90°	60°	62.17	7.33	70°	100.06	+0.18	+0.0113	
	10/3/73	8:00 A	46°	96°	55°	61.97	7.13	68°	100.07	+0.19	+0.0119	
	10/15/73	9:00 A	49°	92°	77°	62.44	7.60	73°	100.08	+0.20	+0.0125	
	10/29/73	8:30 A	48°	94°	70°	62.32	7.48	72°	100.07	+0.19	+0.0119	
WCM	11/12/73	9:30 A	40°	88°	60°	61.82	6.98	67°	100.07	+0.19	+0.0119	
	11/27/73	7:30 A	35°	69°	42°	60.53	5.69	54°	100.05	+0.17	+0.0107	
	12/10/73	9:30 A	41°	78°	60°	61.04	6.20	59°	100.08	+0.20	+0.0125	
	12/24/73	10:30 A	40°	78°	60°	60.84	6.00	57°	100.09	+0.21	+0.0132	
WCM	1/8/74	12:00 P	34°	72°	47°	61.20	6.36	61°	100.04	+0.16	+0.0100	
	1/23/74	DST 9:30 A	38°	67°	48°	60.42	5.58	53°	100.07	+0.19	+0.0119	
	2/5/74	DST 7:30 A	37°	76°	57°	61.15	6.31	60°	100.08	+0.20	+0.0125	
	2/19/74	DST 9:30 A	38°	75°	44°	60.84	6.00	57°	100.06	+0.18	+0.0113	
	3/5/74	DST 9:30 A	40°	80°	52°	60.81	5.97	57°	100.05	+0.17	+0.0107	
	3/18/74	DST 9:30 A	37°	79°	53°	61.32	6.48	62°	100.06	+0.18	+0.0113	
	4/3/74	DST 13:00 P	42°	68°	61°	61.46	6.62	63°	100.10	+0.22	+0.0138	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-3L

Meter No. J-14

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000681 inches per 0.01% ratio change

Resistance ratio at initial reading 100.14 per cent *

Resistance ratio, meter closed: 95.2 per cent

Resistance ratio, meter open: 102.9 per cent

Meter resistance at 0°F, corrected for leads 56.75 ohms

Change in temperature per ohm change in resistance 9.61 °F

*Adjusted resistance ratio after 9-28-72 (98.231).

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
2/28/73	1:30 P	43°	67°	58°	62.39	5.64	54°	99.99	+1.759	+0.1198	
3/9/73	10:30 A	40°	65°	62°	62.18	5.43	52°	99.92	+1.689	+0.1150	
3/23/73	8:45 A	38°	69°	53°	62.06	5.31	51°	99.89	+1.659	+0.1130	
4/4/73	8:00 A	41°	73°	56°	62.24	5.49	53°	99.98	+1.749	+0.1191	
4/18/73	9:45 A	44°	75°	62°	62.44	5.69	55°	99.92	+1.689	+0.1150	
5/2/73	7:30 A	44°	80°	61°	62.65	5.90	57°	99.91	+1.679	+0.1143	
5/16/73	9:00 A	45°	84°	66°	63.08	6.33	61°	99.93	+1.699	+0.1157	
5/30/73	8:00 A	48°	98°	59°	63.41	6.66	64°	99.93	+1.699	+0.1157	
6/12/73	8:00 A	52°	96°	60°	63.58	6.83	66°	99.92	+1.689	+0.1150	
6/25/73	7:30 A	48°	102°	74°	63.93	7.18	69°	99.94	+1.709	+0.1164	
7/5/73	7:00 A	56°	102°	64°	64.17	7.42	71°	99.93	+1.699	+0.1157	
7/16/73	8:30 A	54°	88°	63°	64.25	7.50	72°	99.94	+1.709	+0.1164	
8/1/73	6:30 A	52°	96°	66°	64.32	7.57	73°	99.94	+1.709	+0.1164	
8/14/73	8:00 A	54°	95°	70°	64.39	7.64	73°	99.96	+1.729	+0.1177	
8/28/73	8:30 A	52°	96°	68°	64.29	7.54	72°	99.95	+1.719	+0.1171	
9/11/73	8:00 A	52°	90°	60°	64.00	7.25	70°	99.96	+1.729	+0.1177	
10/3/73	8:00 A	46°	96°	55°	63.65	6.90	66°	99.95	+1.719	+0.1171	
10/15/73	9:00 A	49°	92°	77°	63.47	6.72	65°	99.96	+1.729	+0.1177	
10/29/73	8:30 A	48°	94°	70°	63.31	6.56	63°	99.97	+1.739	+0.1184	
11/12/73	9:30 A	40°	88°	60°	63.04	6.29	60°	99.96	+1.729	+0.1177	
11/27/73	7:30 A	35°	69°	42°	62.34	5.59	54°	100.04	+1.809	+0.1232	
12/10/73	9:30 A	41°	78°	60°	62.16	5.41	52°	100.08	+1.849	+0.1259	
12/24/73	10:30 A	40°	78°	60°	62.04	5.29	51°	100.09	+1.859	+0.1266	
1/8/74	12:00 P	34°	72°	47°	61.73	4.98	48°	99.98	+1.749	+0.1191	
1/22/74	DST 9:30 A	38°	67°	48°	61.90	5.15	49°	100.17	+1.939	+0.1320	
2/5/74	DST 7:30 A	37°	76°	57°	62.04	5.29	51°	100.16	+1.929	+0.1314	
2/19/74	DST 9:30 A	38°	75°	44°	61.99	5.24	50°	100.09	+1.859	+0.1266	
3/5/74	DST 9:30 A	40°	80°	52°	62.10	5.35	51	100.12	+1.889	+0.1286	
3/18/74	DST 9:30 A	37°	79°	53°	62.52	5.77	55	100.15	+1.919	+0.1307	
4/3/74	DST 13:00 P	42°	68°	61°	62.77	6.02	58	100.12	+1.889	+0.1286	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-1L

Meter No. J-12

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000642 inches per 0.01% ratio change

Resistance ratio at initial reading 100.06 per cent

Resistance ratio, meter closed: 95.8 per cent

Resistance ratio, meter open: 103.7 per cent

Meter resistance at 0°F, corrected for leads 55.05 ohms

Change in temperature per ohm change in resistance 9.61 °F

1972 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9-28-72	1200P			78°	63.83	8.68	83°	100.06	0.00	0.0000	1046.59
10-5	8:00A	51°	95°	69°	61.27	6.22	60°	100.23	+0.17	+0.0109	1046.12
10-17	8:30A	48°	93°	58°	60.59	5.54	53°	100.37	+0.31	+0.0199	1046.40
10-31	9:30A	40°	82°	60°	60.11	5.06	49°	100.46	+0.40	+0.0256	1046.23
11-15	7:45A	42°	78°	48°	60.06	4.95	48°	100.57	+0.51	+0.0327	1048.00
11-28	7:45A	40°	80°	53°	60.41	5.36	52°	100.68	+0.62	+0.0398	1059.79
12-11	9:00A	29°	78°	38°	58.47	3.42	33°	100.80	+0.74	+0.0475	1059.64
12-26	900A	31°	77°	59°	60.60	5.55	53°	100.67	+0.61	+0.0392	1060.09
1973 1-15	10:00A	31°	78°	53°	60.29	5.24	50°	100.76	+0.70	+0.0449	1060.34
1-22-73	0945A	35°	59°	52°	59.26	4.21	40°	100.80	+0.74	+0.0475	1062.70
2-7	3:00P	38°	68°	54°	60.80	5.75	55°	100.72	+0.66	+0.0424	1095.86
2-20	9:00A	39°	72°	59°	60.49	5.44	52°	100.92	+0.86	+0.0552	1060.75
	Note: The following measurment was taken 2.25 hours after an earthquake										
2-21	0900A	55°	73°	62°	61.04	5.99	58°	100.71	+0.65	+0.0417	1060.18

SUPERSEDED

Drill-hole No. DH-1L

Adjustment of initial resistance ratio readings to provide computed indicated movements from the new meter readings that will plot in the same range as those from the old meter readings.

-.215 Adjustment of the indicated movement from initial position in inches.

Calibration constant, corrected for leads .000642 inches per 0.01% ratio change or .0642 inches per 1% ratio change.

-.215 ÷ .0642 = -3.349 Adjustment to resistance ratio at initial reading.

100.060 Resistance ratio at initial reading in percent per 9/28/72
3.349 Adjustment to resistance ratio at initial reading (*Note)
103.409 Adjusted resistance ratio at initial reading in percent.

*Note: if adjusted resistance ratio at initial reading is negative add; if positive subtract.

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-1L

Meter No. J-12

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000642 inches per 0.01% ratio change

Resistance ratio at initial reading 100.06 per cent *

Resistance ratio, meter closed: 95.8 per cent

Resistance ratio, meter open: 103.7 per cent

Meter resistance at 0°F, corrected for leads 55.05 ohms

Change in temperature per ohm change in resistance 9.61 °F

*Adjusted resistance ratio after 9/28/72 (103.409)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9/28/72	1200 N							100.06	-3.349	-0.2150	
10/5/72	8:00 A							100.23	-3.197	-0.2041	
10/17/72	8:30 A							100.37	-3.039	-0.1951	
10/31/72	9:30 A							100.46	-2.949	-0.1893	
11/15/72	7:45 A							100.57	-2.839	-0.1823	
11/28/72	7:45 A							100.68	-2.729	-0.1752	
12/11/72	9:00 A							100.80	-2.609	-0.1675	
12/26/72	9:00 A							100.67	-2.739	-0.1758	
1/15/73	10:00 A							100.76	-2.649	-0.1701	
1/22/73	9:45 A							100.80	-2.609	-0.1675	
2/7/73	3:00 P							100.72	-2.689	-0.1726	
2/20/73	9:00 A							100.92	-2.489	-0.1598	
	Note:	The following measurement was taken 2.25 hours after an earthquake									
2/21/73	9:00 A							100.71	-2.699	-0.1733	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2L

Meter No. M-3

Sheet No.

Original meter-cleaned and reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01% ratio change

Resistance ratio at initial reading 100.20 per cent

Resistance ratio, meter closed: 98.6 per cent

Resistance ratio, meter open: 104.2 per cent

Meter resistance at 0°F, corrected for leads 49.67 ohms

Change in temperature per ohm change in resistance 10.95 °F

1972 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9-28-72	12:00P			78°	56.86	7.19	79°	100.20	0.00	0.0000	1046.59
10-5	8:00A	51°	95°	69°	55.98	6.31	69°	100.20	0.00	0.0000	1046.12
10-17	8:30A	48°	93°	58°	55.41	5.74	63°	100.23	+0.03	+0.0032	1046.40
10-31	9:30A	40°	82°	60°	55.15	5.48	60°	100.25	+0.05	+0.0054	1046.28
11-15	7:45A	42°	78°	48°	54.71	5.04	55°	100.30	+0.10	+0.0107	1048.00
11-28	7:45A	40°	80°	53°	54.93	5.26	58°	100.30	+0.10	+0.0107	1059.79
12-11	9:00A	29°	78°	38°	53.76	4.09	45°	100.33	+0.13	+0.0139	1059.64
12-26	9:00A	31°	77°	59°	54.97	5.30	58°	100.34	+0.14	+0.0150	1060.09
1973 1-15	10:00A	31°	78°	53°	54.67	5.00	55	100.37	+0.17	+0.0182	1060.34
1-22-73	0945A	35°	59°	52°	54.15	4.48	49°	100.38	+0.18	+0.0193	1062.70
2-7	3:00P	38°	68°	54°	55.78	6.11	67°	100.30	+0.10	+0.0107	1095.86
2-20	9:00	39°	72°	59°	55.92	6.25	68°	100.31	+0.11	+0.0118	1060.75
	Note: The following measurment was taken 2.25 hours after an earthquake.										
2-21	9:00	55°	73°	62°	55.93	6.26	69°	100.32	+0.12	+0.0129	1060.18

SUPERSEDED

Drill-hole No. DH-2L

Adjustment of initial resistance ratio readings to provide computed indicated movements from the new meter readings that will plot in the same range as those from the old meter readings.

+.015 Adjustment of the indicated movement from initial position in inches.

Calibration constant, corrected for leads .001073 inches per 0.01% ratio change or .1073 inches per 1% ratio change.

+.015 ÷ .1073 = +.140 Adjustment to resistance ratio at initial reading.

100.20 Resistance ratio at initial reading in percent per 9/28/72

.14 Adjustment to resistance ratio at initial reading (*Note)

100.06 Adjusted resistance ratio at initial reading in percent.

*Note: if adjusted resistance ratio at initial reading is negative add; if positive subtract.

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2L
Meter No. M-3
Sheet No.

Original meter-cleaned and reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001073 inches per 0.01% ratio change
Resistance ratio at initial reading 100.20 per cent *
Resistance ratio, meter closed: 98.6 per cent
Resistance ratio, meter open: 104.2 per cent
Meter resistance at 0°F, corrected for leads 49.67 ohms
Change in temperature per ohm change in resistance 10.95 °F

*Adjusted resistance ratio after 9/28/72 (100.06)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9/28/72	1200 N							100.20	+0.14	+0.0150	
10/5/72	8:00 A							100.20	+0.14	+0.0150	
10/17/72	8:30 A							100.23	+0.17	+0.0182	
10/31/72	9:30 A							100.25	+0.19	+0.0204	
11/15/72	7:45 A							100.30	+0.24	+0.0258	
11/28/72	7:45 A							100.30	+0.24	+0.0258	
12/11/72	9:00 A							100.33	+0.27	+0.0290	
12/26/72	9:00 A							100.34	+0.28	+0.0300	
1/15/73	10:00 A							100.37	+0.31	+0.0333	
1/22/73	9:45 A							100.38	+0.32	+0.0343	
2/7/73	3:00 P							100.30	+0.24	+0.0258	
2/20/73	9:00 A							100.31	+0.25	+0.0268	
	Note: The following measurment was taken 2.25 hours after an earthquake										
2/21/73	9:00 A							100.32	+0.26	+0.0279	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2aL

Meter No. J-93

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000627 inches per 0.01% ratio change

Resistance ratio at initial reading 100.04 per cent

Resistance ratio, meter closed: 96.0 per cent

Resistance ratio, meter open: 104.0 per cent

Meter resistance at 0°F, corrected for leads 54.84 ohms

Change in temperature per ohm change in resistance 9.56 °F

1972 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9-28-72	12:00P			78°	63.01	8.17	78°	100.04	0.00	0.0000	1046.59
10-5	8:00A	51°	95°	69°	62.22	7.38	71°	100.03	-0.01	-0.0006	1046.12
10-17	8:30A	48°	93°	58°	61.60	6.76	65°	100.04	0.00	0.0000	1046.40
10-31	9:30A	40°	82°	60°	61.33	6.49	62°	100.05	+0.01	+0.0006	1046.28
11-15	7:45A	42°	78°	48°	60.87	6.03	58°	100.05	+0.01	+0.0006	1048.00
11-28	7:45A	40°	80°	53°	61.14	6.30	60°	100.07	+0.03	+0.0019	1059.79
12-11	9:00A	29°	78°	38°	59.85	5.01	48°	100.07	+0.03	+0.0019	1059.64
12-26	9:00A	31°	77°	59°	61.08	6.24	60°	100.09	+0.05	+0.0031	1060.09
1973 1-15	10:00A	31°	78°	53°	60.77	5.93	57°	100.09	+0.05	+0.0031	1060.34
1-22-73	9:45A	35°	59°	52°	60.22	5.38	51°	100.11	+0.07	+0.0044	1062.70
2-7	3:00P	38°	68°	54°	61.35	6.51	62°	100.10	+0.06	+0.0038	1095.86
2-20	9:00A	39°	72°	59°	61.53	6.69	64°	100.16	+0.12	+0.0075	1060.75
	Note: The following measurment was taken 2.25 hours after an earthquake										
2-21	9:00A	55°	73°	62°	61.60	6.76	65°	100.13	+0.09	+0.0056	1060.18

SUPERSEDED

Drill-hole No. DH-2AL

Adjustment of initial resistance ratio readings to provide computed indicated movements from the new meter readings that will plot in the same range as those from the old meter readings.

+.010 Adjustment of the indicated movement from initial position in inches.

Calibration constant, corrected for leads .000627 inches per 0.01% ratio change or .0627 inches per 1% ratio change.

+.010 ÷ .0627 = +.160 Adjustment to resistance ratio at initial reading.

100.04 Resistance ratio at initial reading in percent per 9/28/72

.16 Adjustment to resistance ratio at initial reading (*Note)

99.88 Adjusted resistance ratio at initial reading in percent.

*Note: if adjusted resistance ratio at initial reading is negative add; if positive subtract.

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2aL

Meter No. J-73

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000627 inches per 0.01% ratio change

Resistance ratio at initial reading 100.04 per cent *

Resistance ratio, meter closed: 96.0 per cent

Resistance ratio, meter open: 104.0 per cent

Meter resistance at 0°F, corrected for leads 54.84 ohms

Change in temperature per ohm change in resistance 9.56 °F

*Adjusted resistance ratio after 9/28/72 (99.88)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9/28/72	1200 N							100.04	+0.16	+0.0100	
10/5/72	8:00 A							100.03	+0.15	+0.0094	
10/17/72	8:30 A							100.04	+0.16	+0.0100	
10/31/72	9:30 A							100.05	+0.17	+0.0107	
11/15/72	7:45 A							100.05	+0.17	+0.0107	
11/28/72	7:45 A							100.07	+0.19	+0.0119	
12/11/72	9:00 A							100.07	+0.19	+0.0119	
12/26/72	9:00 A							100.09	+0.21	+0.0132	
1/15/73	10:00 A							100.09	+0.21	+0.0132	
1/22/73	9:45 A							100.11	+0.23	+0.0144	
2/7/73	3:00 P							100.10	+0.22	+0.0138	
2/20/73	9:00 A							100.16	+0.28	+0.0176	
	Note: The following measurment was taken 2.25 hours after an earthquake.										
2/21/73	9:00 A							100.13	+0.25	+0.0157	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-3L

Meter No. J-14

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000681 inches per 0.01% ratio change

Resistance ratio at initial reading 100.14 per cent

Resistance ratio, meter closed: 95.2 per cent

Resistance ratio, meter open: 102.9 per cent

Meter resistance at 0°F, corrected for leads 56.75 ohms

Change in temperature per ohm change in resistance 9.61 °F

1972 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9-28-72	12:00P			78°	63.95	7.20	69°	100.14	0.00	0.0000	1046.59
10-5	8:00A	51°	95°	69°	63.65	6.90	66°	100.13	-0.01	-0.0007	1046.12
10-17	8:30A	48°	93°	58°	63.26	6.51	63°	100.14	0.00	0.0000	1046.40
10-31	9:30A	40°	82°	60°	62.83	6.08	58°	100.16	+0.02	+0.0014	1046.28
11-15	7:45A	42°	78°	48°	62.74	5.99	58°	100.16	+0.02	+0.0014	1048.00
11-28	7:45A	40°	80°	53°	62.65	5.90	57°	100.18	+0.04	+0.0027	1059.79
12-11	9:00A	29°	78°	38°	61.90	5.15	49°	100.16	+0.02	+0.0014	1059.64
12-26	9:00A	31°	77°	59°	61.88	5.13	49°	100.16	+0.02	+0.0014	1060.09
1973 1-15	10:00A	31°	78°	53°	61.76	5.01	48°	100.19	+0.05	+0.0034	1060.34
1-22-73	9:45A	35°	59°	52°	61.67	4.92	47°	100.02	-0.12	-0.0082	1062.70
2-7	3:00P	38°	68°	54°	61.93	5.18	50°	99.86	-0.28	-0.0191	1095.86
2-20	9:00A	39°	72°	59°	62.15	5.40	52°	99.96	-0.18	-0.0123	1060.75
	Note: The following measurment was taken 2.75 hours after an earthquake										
2-21	9:00A	55°	73°	62°	62.22	5.47	53°	99.98	-0.16	-0.0109	1060.18

SUPERSEDED

Drill-hole No. DH-3L

Adjustment of initial resistance ratio readings to provide computed indicated movements from the new meter readings that will plot in the same range as those from the old meter readings.

+.130 Adjustment of the indicated movement from initial position in inches.

Calibration constant, corrected for leads .000681 inches per 0.01% ratio change or .0681 inches per 1% ratio change.

+.130 ÷ .0681 = +1.909 Adjustment to resistance ratio at initial reading.

100.140 Resistance ratio at initial reading in percent per 9/28/72

1.909 Adjustment to resistance ratio at initial reading (*Note)

98.231 Adjusted resistance ratio at initial reading in percent.

*Note: if adjusted resistance ratio at initial reading is negative add; if positive subtract.

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-3L

Meter No. J-14

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000681 inches per 0.01% ratio change

Resistance ratio at initial reading 100.14 per cent *

Resistance ratio, meter closed: 95.2 per cent

Resistance ratio, meter open: 102.9 per cent

Meter resistance at 0°F, corrected for leads 56.75 ohms

Change in temperature per ohm change in resistance 9.61 °F

*Adjusted resistance ratio after 9/28/72 (98.231)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9/28/72	1200 N							100.14	+1.909	+0.1300	
10/5/72	8:00A							100.13	+1.899	+0.1293	
10/17/72	8:30A							100.14	+1.909	+0.1300	
10/31/72	9:30A							100.16	+1.929	+0.1314	
11/15/72	7:45A							100.16	+1.929	+0.1314	
11/28/72	7:45A							100.18	+1.949	+0.1327	
12/11/72	9:00A							100.16	+1.929	+0.1314	
12/26/72	9:00A							100.16	+1.929	+0.1314	
1/15/73	10:00A							100.19	+1.959	+0.1334	
1/22/73	9:45A							100.02	+1.789	+0.1218	
2/7/73	3:00P							99.86	+1.629	+0.1109	
2/20/73	9:00A							99.96	+1.729	+0.1177	
	Note: the following measurment was taken 2.25 hours after an earthquake										
2/21/73	9:00A							99.98	+1.749	+0.1191	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-1R

Meter No. M-6

Sheet No.

Original meter—cleaned and reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001158 inches per 0.01% ratio change

Resistance ratio at initial reading 100.17 per cent

Resistance ratio, meter closed: 98.0 per cent

Resistance ratio, meter open: 103.6 per cent

Meter resistance at 0°F, corrected for leads 49.76 ohms

Change in temperature per ohm change in resistance 10.88 °F

1972 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9-28-72	1300P			73°	56.04	6.28	68°	100.17	0.00	0.0000	1046.59
10-5	8:00A	51°	88°	66°	55.46	5.70	62°	100.19	+0.02	+0.0023	1046.12
10-17	8:30A	48°	86°	56°	54.88	5.12	56°	100.23	+0.06	+0.0069	1046.40
10-31	9:30A	40°	76°	56°	54.52	4.76	52°	100.29	+0.12	+0.0139	1046.28
11-15	7:45A	42°	73°	48°	54.29	4.53	49°	100.31	+0.14	+0.0162	1048.00
11-28	7:45A	40°	72°	51°	54.45	4.69	51°	100.44	+0.27	+0.0313	1059.79
12-11	9:00A	28°	68°	36°	53.22	3.46	38°	100.60	+0.43	+0.0498	1059.64
12-26	9:00A	29°	70°	61°	54.78	5.02	55°	100.58	+0.41	+0.0475	1060.09
1973 1-15	10:00A	30°	68°	50°	54.35	4.59	50°	100.65	+0.48	+0.0556	1060.34
1-22-73	9:45A	39°	55°	45°	53.60	3.84	42°	100.78	+0.61	+0.0706	1062.70
2-7	3:00P	37°	64°	53°	54.51	4.75	52°	100.73	+0.56	+0.0648	1095.86
2-20	9:00A	39°	58°	56°	54.35	4.59	50°	100.83	+0.66	+0.0764	1060.75
	Note:	The following measurment was taken 2.25 hours after an earthquake.									
2-21	9:00A	50°	63°	55°	54.52	4.76	52°	100.82	+0.65	+0.0753	1060.18

SUPERSEDED

Drill-hole No. DH-1R

Adjustment of initial resistance ratio readings to provide computed indicated movements from the new meter readings that will plot in the same range as those from the old meter readings.

-.080 Adjustment of the indicated movement from initial position in inches.

Calibration constant, corrected for leads .001158 inches per 0.01% ratio change or .1158 inches per 1% ratio change.

-.080 ÷ .1158 = -.691 Adjustment to resistance ratio at initial reading.

100.170 Resistance ratio at initial reading in percent per 9/28/72

.691 Adjustment to resistance ratio at initial reading (*Note)

100.861 Adjusted resistance ratio at initial reading in percent.

*Note: if adjusted resistance ratio at initial reading is negative add; if positive subtract.

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-1R

Meter No. M-6

Sheet No.

Original meter—cleaned and reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001158 inches per 0.01% ratio change

Resistance ratio at initial reading 100.17 per cent *

Resistance ratio, meter closed: 98.0 per cent

Resistance ratio, meter open: 103.6 per cent

Meter resistance at 0°F, corrected for leads 49.76 ohms

Change in temperature per ohm change in resistance 10.88 °F

*Adjusted resistance ratio after 9/28/72 (100.861)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9/28/72	100 P							100.17	-0.691	-0.0800	
10/5/72	800 A							100.19	-0.671	-0.0777	
10/17/72	830 A							100.23	-0.631	-0.0731	
10/31/72	930 A							100.29	-0.571	-0.0661	
11/15/72	7:45 A							100.31	-0.551	-0.0638	
11/28/72	7:45 A							100.44	-0.421	-0.0488	
12/11/72	9:00 A							100.60	-0.261	-0.0302	
12/26/72	9:00 A							100.58	-0.281	-0.0325	
1/15/73	10:00 A							100.65	-0.211	-0.0244	
1/22/73	9:45 A							100.78	-0.081	-0.0094	
2/7/73	3:00 P							100.73	-0.131	-0.0152	
2/20/73	9:00 A							100.83	-0.031	-0.0036	
		Note:	The	following	measorment	was taken		2.25 hours	after an	earthquake	
2/21/73	9:00 A							100.82	-0.041	-0.0047	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2R

Meter No. M-1

Sheet No.

Original meter--cleaned and reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001145 inches per 0.01% ratio change

Resistance ratio at initial reading 100.21 per cent

Resistance ratio, meter closed: 97.9 per cent

Resistance ratio, meter open: 103.0 per cent

Meter resistance at 0°F, corrected for leads 50.07 ohms

Change in temperature per ohm change in resistance 10.95 °F

1972 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9-28-72	1300			73°	56.18	6.11	67°	100.21	0.00	0.0000	1046.59
10-5	8:00 A	51°	88°	66°	55.68	5.61	61°	100.25	+0.04	+0.0046	1046.12
10-17	8:30 A	48°	86°	56°	55.16	5.09	56°	100.26	+0.05	+0.0057	1046.40
10-31	9:30 A	40°	76°	56°	54.84	4.77	52°	100.30	+0.09	+0.0103	1046.28
11-15	7:45 A	42°	73°	48°	54.60	4.53	50°	100.28	+0.07	+0.0080	1048.00
11-28	7:45 A	40°	72°	51°	54.74	4.67	51°	100.26	+0.05	+0.0057	1059.79
12-11	9:00 A	28°	68°	36°	53.61	3.54	39°	100.30	+0.09	+0.0103	1059.64
12-26	9:00 A	29°	70°	61°	55.03	4.94	54°	100.26	+0.05	+0.0057	1060.09
1973 1-15	10:00 A	30°	68°	50°	54.62	4.55	50°	100.27	+0.06	+0.0069	1060.34
1-22-73	9:45 A	39°	55°	45°	53.94	3.87	42°	100.27	+0.06	+0.0069	1062.70
2-7	3:00 P	37°	64°	53°	54.67	4.60	50°	100.20	-0.01	-0.0011	1095.86
2-20	9:00 A	39°	58°	56°	54.53	4.46	49°	100.28	+0.07	+0.0080	1060.75
	Note: The following measurment was taken 2.25 hours after an earthquake.										
2-21	9:00 A	50°	63°	55°	54.71	4.64	51°	100.28	+0.07	+0.0080	1060.18

SUPERSEDED

Drill-hole No. DH-2R

Adjustment of initial resistance ratio readings to provide computed indicated movements from the new meter readings that will plot in the same range as those from the old meter readings.

+.015 Adjustment of the indicated movement from initial position in inches.

Calibration constant, corrected for leads .001145 inches per 0.01% ratio change or .1145 inches per 1% ratio change.

+.015 ÷ .1145 = +.131 Adjustment to resistance ratio at initial reading.

100.210 Resistance ratio at initial reading in percent per 9/28/72
.131 Adjustment to resistance ratio at initial reading (*Note)
100.079 Adjusted resistance ratio at initial reading in percent.

*Note: if adjusted resistance ratio at initial reading is negative add; if positive subtract.

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2R

Meter No. M-1

Sheet No.

Original meter--cleaned and reinstalled 9-28-72.

Calibrations:

Calibration constant, corrected for leads .001145 inches per 0.01% ratio change

Resistance ratio at initial reading 100.21 per cent *

Resistance ratio, meter closed: 97.9 per cent

Resistance ratio, meter open: 103.0 per cent

Meter resistance at 0°F, corrected for leads 50.07 ohms

Change in temperature per ohm change in resistance 10.95 °F

*Adjusted resistance ratio after 9/28/72 (100.079)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9/28/72	1:00P							100.21	+0.131	+0.0150	
10/5/72	8:00 A							100.25	+0.171	+0.0196	
10/17/72	8:30 A							100.26	+0.181	+0.0207	
10/31/72	9:30 A							100.30	+0.221	+0.0253	
11/15/72	7:45 A							100.28	+0.201	+0.0230	
11/28/72	7:45 A							100.26	+0.181	+0.0207	
12/11/72	9:00 A							100.30	+0.221	+0.0253	
12/26/72	9:00 A							100.26	+0.181	+0.0207	
1/15/73	10:00 A							100.27	+0.191	+0.0219	
1/22/73	9:45 A							100.27	+0.191	+0.0219	
2/7/73	3:00 P							100.20	+0.121	+0.0139	
2/20/73	9:00 A							100.28	+0.201	+0.0230	
	Note: The following measurment was taken 2.25 hours after an earthquake										
2/21/73	9:00 A							100.28	+0.201	+0.0230	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

New meter installed 9-28-72.

Drill-hole No DH-2aR

Meter No. J-15

Sheet No.

Calibrations:

Calibration constant, corrected for leads .000639 inches per 0.01% ratio change

Resistance ratio at initial reading 100.52 per cent

Resistance ratio, meter closed: 96.1 per cent

Resistance ratio, meter open: 104.0 per cent

Meter resistance at 0°F, corrected for leads 54.63 ohms

Change in temperature per ohm change in resistance 9.65 °F

1972 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9-28-72	1300P			73°	61.50	6.87	66°	100.52	0.00	0.0000	1046.59
10-5	8:00A	51°	88°	66°	61.12	6.49	63°	100.50	-0.02	-0.0013	1046.12
10-17	8:30A	48°	86°	56°	60.69	6.06	58°	100.51	-0.01	-0.0006	1046.40
10-31	9:30A	40°	76°	56°	60.24	5.61	54°	100.50	-0.02	-0.0013	1046.28
11-15	7:45A	42°	73°	48°	60.06	5.43	52°	100.51	-0.01	-0.0006	1048.00
11-28	7:45A	40°	72°	51°	60.22	5.59	54°	100.52	-0.00	0.0000	1059.79
12-11	9:00A	28°	68°	36°	59.03	4.40	42°	100.50	-0.02	-0.0013	1059.64
12-26	9:00A	29°	70°	61°	60.37	5.74	55°	100.53	+0.01	+0.0006	1060.09
1973 1-15	10:00A	30°	68°	50°	59.98	5.35	52°	100.53	+0.01	+0.0006	1060.34
1-22-73	9:45A	39°	55°	45°	59.60	4.97	48°	100.54	+0.02	+0.0013	1062.70
2-7	3:00P	37°	64°	53°	60.53	5.90	57°	100.54	+0.02	+0.0013	1095.86
2-20	9:00A	39°	58°	56°	59.99	5.36	52°	100.56	+0.04	+0.0026	1060.75
	Note:	The	following	measurment	was taken	2.25	hours	after an	earthquake.		
2-21	9:00A	50°	63°	55	59.98	5.35	52°	100.57	+0.05	+0.0032	1060.18

SUPERSEDED

Drill-hole No. DH-2AR

Adjustment of initial resistance ratio readings to provide computed indicated movements from the new meter readings that will plot in the same range as those from the old meter readings.

+.028 Adjustment of the indicated movement from initial position in inches.

Calibration constant, corrected for leads .000639 inches per 0.01% ratio change or .0639 inches per 1% ratio change.

+.028 ÷ .0639 = +.438 Adjustment to resistance ratio at initial reading.

100.520 Resistance ratio at initial reading in percent per 9/28/72
.438 Adjustment to resistance ratio at initial reading (*Note)
100.082 Adjusted resistance ratio at initial reading in percent.

*Note: if adjusted resistance ratio at initial reading is negative add; if positive subtract.

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-2aR

Meter No. J-15

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000639 inches per 0.01% ratio change

Resistance ratio at initial reading 100.52 per cent *

Resistance ratio, meter closed: 96.1 per cent

Resistance ratio, meter open: 104.0 per cent

Meter resistance at 0°F, corrected for leads 54.63 ohms

Change in temperature per ohm change in resistance 9.65 °F

*Adjusted resistance ratio after 9/28/72 (100.082)

Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9/28/72	1:00 P							100.52	+0.438	+0.0280	
10/5/72	8:00 A							100.50	+0.418	+0.0267	
10/17/72	8:30 A							100.51	+0.428	+0.0274	
10/31/72	9:30 A							100.50	+0.418	+0.0267	
11/15/72	7:45 A							100.51	+0.428	+0.0274	
11/28/72	7:45 A							100.52	+0.438	+0.0280	
12/11/72	9:00 A							100.50	+0.418	+0.0267	
12/26/72	9:00 A							100.53	+0.448	+0.0286	
1/15/73	10:00 A							100.53	+0.448	+0.0286	
1/22/73	9:45 A							100.54	+0.458	+0.0293	
2/7/73	3:00 P							100.54	+0.458	+0.02930	
2/20/73	9:00 A							100.56	+0.478	+0.0305	
	Note: The following measurment was taken						2.25	hours after	an earthquake		
2/21/73	9:00 A							100.57	+0.488	+0.0312	

ABUTMENT YIELD MEASUREMENT DATA

Project MATILIJA DAM

Drill-hole No DH-3R

Meter No. J-16

Sheet No.

New meter installed 9-28-72.

Calibrations:

Calibration constant, corrected for leads .000646 inches per 0.01% ratio change

Resistance ratio at initial reading 100.13 per cent

Resistance ratio, meter closed: 96.7 per cent

Resistance ratio, meter open: 104.6 per cent

Meter resistance at 0°F, corrected for leads 55.18 ohms

Change in temperature per ohm change in resistance 9.66 °F

1972 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
9-28-72	1300P			73°	62.29	7.11	69°	100.13	0.00	0.0000	1046.59
10-5	8:00A	51°	88°	66°	61.84	6.66	64°	100.15	+0.02	+0.0013	1046.12
10-17	8:30A	48°	86°	56°	61.26	6.08 ~~5.08~~	49° 59°	100.20	+0.07	+0.0045	1046.40
10-31	9:30A	40°	76°	56°	60.86	5.68	55°	100.27	+0.14	+0.0090	1046.28
11-15	7:45A	42°	73°	48°	60.55	5.37	52°	100.31	+0.18	+0.0116	1048.00
11-28	7:45A	40°	72°	51°	60.61	5.43	52°	100.31	+0.18	+0.0116	1059.79
12-11	9:00A	28°	68°	36°	59.47	4.29	41°	100.39	+0.26	+0.0168	1059.64
12-26	9:00A	29°	70°	61°	60.87	5.69	55°	100.34	+0.21	+0.0136	1060.09
1973 1-15	10:00A	30°	68°	50°	60.46	5.28	51°	100.37	+0.24	+0.0155	1060.34
1-22-73	9:45A	39°	55°	45°	59.87	4.69	45°	100.36	+0.23	+0.0149	1062.70
2-7	3:00P	37°	64°	53°	60.53	5.35	52°	100.20	+0.07	+0.0045	1095.86
2-20	9:00A	39°	58°	56°	60.51	5.33	51°	100.33	+0.20	+0.0129	1060.75
	Note:	The following measurment was taken 2.25 hours after an earthquake.									
2-21	9:00A	50°	63°	55	60.49	5.31	51°	100.34	+0.21	+0.0136	1060.18

ADJUSTMENTS TO "INDICATED MOVEMENT FROM INITIAL POSITION INCHES" FROM SEPTEMBER 28, 1972 ON AS PER INSTRUCTIONS OF GORDON MARSH, MARCH 14, 1973.

1L	-.215
2L	+.015
2aL	+.010
3L	+.130
1R	-.080
2R	+.015
2aR	+.028
3R	No change

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-1R
Meter No. M-6
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001159 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.76 per cent
Resistance ratio, meter closed: 98.0 per cent
Resistance ratio, meter open: 103.6 per cent
Meter resistance at 0°F, corrected for leads 49.76 ohms
Change in temperature per ohm change in resistance 10.88 °F

1971 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7/7	8:30A	54°	80°	62°	55.41	5.65	61°	100.48	-0.28	-0.0325	1072.00
7/20	8:00A	56°	94°	72°	56.13	6.37	69°	100.36	-0.40	-0.0464	1071.77
8/4	8:00A	59°	95°	78°	56.51	6.75	73°	100.28	-0.48	-0.0556	1071.69
8/17	8:30A	62°	99°	74°	56.17	6.41	70°	100.24	-0.52	-0.0603	1071.63
8/30	9:00A	58°	96°	78°	56.22	6.46	70°	100.22	-0.54	-0.0626	1071.62
9/14	8:00A	58°	106°	81°	56.94	7.18	78°	100.14	-0.62	-0.0719	1071.75
9/28	8:00A	49°	94°	58°	54.99	5.23	57°	100.24	-0.52	-0.0603	1071.80
10/12	8:30A	50°	94°	76°	56.29	6.53	71°	100.18	-0.58	-0.0672	1071.78
10/27	8:30A	40°	88°	54°	54.73	4.97	54°	100.29	-0.47	-0.0545	1071.91
11/9	8:00A	37°	79°	55°	54.65	4.89	53°	100.33	-0.43	-0.0498	1072.11
11/23	7:30A	39°	69°	48°	54.09	4.33	47°	100.40	-0.36	-0.0417	1060.36
12/7	7:30A	40°	66°	43°	54.01	4.25	46°	100.40	-0.36	-0.0417	1060.53
12/22	11:15A	33°	61°	51°	54.29	4.53	49°	100.46	-0.30	-0.0348	1061.04
1972											
1/4	8:30A	34°	59°	40°	53.51	3.75	41°	100.76	0.00	0.0000	1060.85
1/19	9:30A	35°	68°	41°	53.69	3.93	43°	100.80	+0.04	+0.0046	1061.47
2/1	9:00A	34°	64°	41°	53.63	3.87	42°	100.82	+0.06	+0.0070	1066.05
2/15	9:00A	39°	68°	59°	54.77	5.01	55°	100.80	+0.04	+0.0046	1067.97
2/29	9:00A	40°	75°	51°	54.38	4.62	50°	100.77	+0.01	+0.0012	1067.98
3/14	8:45A	44°	82°	56°	54.78	5.02	55°	100.73	-0.03	-0.0035	1068.22
3/28	9:30A	40°	80°	55°	54.49	4.73	51°	100.73	-0.03	-0.0035	1068.04
4/10	9:00A	40°	74°	55°	54.79	5.03	55°	100.65	-0.11	-0.0127	1068.74
4/24	9:15A	40°	74°	60°	54.87	5.11	56°	100.65	-0.11	-0.0127	1070.04
5/9	7:15A	46°	81°	57°	54.76	5.00	54°	100.58	-0.18	-0.0209	1070.88
5/22	8:00A	43°	92°	59°	54.94	5.18	56°	100.52	-0.24	-0.0278	1071.30
6/7	8:15A	52°	92°	59°	55.81 68	6.05 87	66° 64°	100.39	-0.37	-0.0429	1071.55
6/20	9:00A	54°	85°	77°	55.95	6.19	67°	100.32	-0.44	-0.0510	1071.52
7/6	10:00A	52°	96°	83°	55.61	5.85	64°	100.20	-0.56	-0.0649	1071.50
8/2	7:30A	56°	100°	74°	56.43	6.67	73°	100.13	-0.63	-0.0730	1071.42
		Strain Meters were removed after reading 8/2/72									

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2R
Meter No. M-1
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001147 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.82 per cent
Resistance ratio, meter closed: 97.9 per cent
Resistance ratio, meter open: 103.0 per cent
Meter resistance at 0°F, corrected for leads 50.07 ohms
Change in temperature per ohm change in resistance 10.95 °F

1971 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7/7	8:30A	54°	80°	62°	55.55	5.48	60°	100.93	+0.11	+0.0126	
7/20	8:00A	56°	94°	72°	56.18	6.11	67°	100.92	+0.10	+0.0115	
8/4	8:00A	59°	95°	78°	56.52	6.45	71°	100.92	+0.10	+0.0115	
8/17	8:30A	62°	99°	74°	56.28	6.21	68°	100.93	+0.11	+0.0126	
8/30	9:00A	58°	96°	78°	56.32	6.25	68°	100.94	+0.12	+0.0138	
9/14	8:00A	58°	106°	81°	56.96	6.89	75°	100.90	+0.08	+0.0092	
9/28	8:00A	49°	94°	58°	55.22	5.15	56°	100.96	+0.14	+0.0161	
10/12	8:30A	50°	94°	76°	56.39	6.32	69°	100.93	+0.11	+0.0126	
10/27	8:30A	40°	88°	54°	55.00	4.93	54°	100.98	+0.16	+0.0184	
11/9	8:00A	37°	79°	55°	54.90	4.83	53°	100.98	+0.16	+0.0184	
11/23	7:30A	39°	69°	48°	54.42	4.35	48°	101.00	+0.18	+0.0206	
12/7	7:30A	40°	66°	43°	54.35	4.28	47°	100.99	+0.17	+0.0195	
12/22	11:15A	33°	61°	51°	54.54	4.47	49°	101.01	+0.19	+0.0218	
1972											
1/4	8:30A	34°	59°	40°	53.83	3.76	41°	100.99	+0.17	+0.0195	
1/19	9:30A	35°	68°	41°	54.01	3.94	43°	100.99	+0.17	+0.0195	
2/1	9:00A	34°	64°	41°	53.95	3.90 88	43 42	100.99	+0.17	+0.0195	
2/15	9:00A	39°	68°	59°	54.97	4.90	54°	100.98	+0.16	+0.0184	
2/29	9:00A	40°	75°	51°	54.66	4.59	50°	100.97	+0.15	+0.0172	
3/14	8:45A	44°	82°	56°	54.99	4.92	54°	100.97	+0.15	+0.0172	
3/28	9:30A	40°	80°	55°	54.79	4.72	52°	101.00	+0.18	+0.0206	
4/10	9:00A	40°	74°	55°	54.99	4.92	54°	100.95	+0.13	+0.0149	
4/24	9:15A	40°	74°	60°	55.11	5.04	55°	100.99	+0.17	+0.0195	
5/9	7:15A	46°	81°	57°	55.00	4.93	54°	100.98	+0.16	+0.0184	
5/22	8:00A	43°	92°	59°	55.18	5.11	56°	100.98	+0.16	+0.0184	
6/7	8:15A	52°	92°	59°	55.81	5.74	63°	100.93	+0.11	+0.0126	
6/20	9:00A	54°	85°	77°	56.01	5.94	65°	100.95	+0.13	+0.0149	
7/6	10:00A	52°	96°	83°	56.63	6.56	72°	100.91	+0.09	+0.0103	
8/2	7:30A	56°	100°	74°	56.51	6.44	71°	100.92	+0.10	+0.0115	

STRAIN METERS WERE REMOVED AFTER READING 8/2/72

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-2aR
Meter No. M-5
Sheet No. _____

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 100.84 per cent
Resistance ratio, meter closed: 98.4 per cent
Resistance ratio, meter open: 103.8 per cent
Meter resistance at 0°F, corrected for leads 49.99 ohms
Change in temperature per ohm change in resistance 10.93 °F

1971 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7/7	8:30A	54°	80°	62°	55.54	5.55	61°	101.06	+0.22	+0.0263	
7/20	8:00A	56°	94°	72°	55.76	5.77	63°	101.07	+0.23	+0.0275	
8/4	8:00A	59°	95°	78°	55.94	5.95	65°	101.07	+0.23	+0.0275	
8/17	8:30A	62°	99°	74°	56.01	6.02	66°	101.06	+0.22	+0.0263	
8/30	9:00A	58°	96°	78°	56.10	6.11	67°	101.06	+0.22	+0.0263	
9/14	8:00A	58°	106°	81°	56.41	6.42	70°	101.06	+0.22	+0.0263	
9/28	8:00A	49°	94°	58°	55.76	6.77	74°	101.02	+0.14 ~~+0.22~~	+0.0263	.0215
10/12	8:30A	50°	94°	76°	56.18	6.19	68°	101.05	+0.21	+0.0251	
10/27	8:30A	40°	88°	54°	55.38	5.39	59°	101.04	+0.20	+0.0239	
11/9	8:00A	37°	79°	55°	55.30	5.31	58°	101.06	+0.22	+0.0263	
11/23	7:30A	39°	69°	48°	54.55	4.56	50°	101.06	+0.22	+0.0263	
12/7	7:30A	40°	66°	43°	54.58	4.59	50°	101.05	+0.21	+0.0251	
12/22	11:15A	33°	61°	51°	54.56	4.57	50°	101.07	+0.23	+0.0275	
1972											
1/4	8:30A	34°	59°	40°	54.02	4.03	44°	101.07	+0.23	+0.0275	
1/19	9:30A	35°	68°	41°	54.23	4.24	46°	101.07	+0.23	+0.0275	
2/1	9:00A	34°	64°	41°	54.60	4.61	50°	101.05	+0.21	+0.0251	
2/16	9:00A	39°	68°	59°	55.02	5.03	55°	101.06	+0.22	+0.0263	
2/29	9:00A	40°	75°	51°	55.09	5.10	56°	101.06	+0.22	+0.0263	
3/14	8:45A	44°	82°	56°	55.26	5.27	58°	101.06	+0.22	+0.0263	
3/28	9:30A	40°	80°	55°	55.13	5.14	56°	101.06	+0.22	+0.0263	
4/10	9:00A	40°	74°	55°	55.30	5.31	58°	101.06	+0.22	+0.0263	
4/24	9:15A	40°	74°	60°	55.25	5.26	57°	101.06	+0.22	+0.0263	
5/9	7:15A	46°	81°	57°	55.33	5.34	58°	101.06	+0.22	+0.0263	
5/22	8:00A	43°	92°	69°	55.38	5.39	59°	101.06	+0.22	+0.0263	
6/7	8:15A	52°	92°	59°	55.74	5.75	63°	101.06	+0.22	+0.0263	
6/20	9:00A	54°	85°	77°	55.76	5.77	63°	101.07	+0.23	+0.0275	
7/6	10:00A	52°	96°	83°	55.97	5.98	65°	101.08	+0.24	+0.0287	
8/2	7:30	56°	100°	74°	56.40	6.41	70°	101.07	+0.23	+0.0275	

STRAIN METERS WERE REMOVED AFTER READING 8/2/72

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-3R
Meter No. M-4
Sheet No.

Calibrations:

Calibration constant, corrected for leads .001088 inches per 0.01 % ratio change
Resistance ratio at initial reading 101.79 per cent
Resistance ratio, meter closed: 98.9 per cent
Resistance ratio, meter open: 104.5 per cent
Meter resistance at 0°F, corrected for leads 50.57 ohms
Change in temperature per ohm change in resistance 10.93 °F

1971 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7/7	8:30A	54°	80°	62°	56.97	6.40	70°	100.55	-1.24	-0.1349	
7/20	8:00A	56°	94°	72°	57.56	6.99	76°	100.51	-1.28	-0.1393	
8/4	8:00A	59°	95°	78°	57.90	7.33	80°	100.49	-1.30	-0.1414	
8/17	8:30A	62°	99°	74°	57.72	7.15	78°	100.48	-1.31	-0.1425	
8/30	9:00A	58°	96°	78°	57.78	7.21	79°	100.47	-1.32	-0.1436	
9/14	8:00A	58°	106°	81°	58.32	7.75	85°	100.44	-1.35	-0.1469	
9/28	8:00A	49°	94°	58°	56.75	6.18	68°	100.50	-1.29	-0.1404	
10/12	8:30A	50°	94°	76°	57.78	7.21	79°	100.59	-1.20	-0.1306	
10/27	8:30A	40°	88°	54°	56.39	5.82	64°	100.69	-1.10	-0.1197	
11/9	8:00A	37°	79°	55°	56.24	5.67	62°	100.73	-1.06	-0.1153	
11/23	7:30A	39°	69°	48°	55.73	5.16	56°	100.81	-0.98	-0.1066	
12/7	7:30A	40°	66°	43°	55.62	5.05	55°	100.82	-0.97	-0.1055	
12/22	11:15A	33°	61°	51°	55.76	5.19	57°	100.86	-0.93	-0.1012	
1972											
1/4	8:30A	34°	59°	40°	54.98	4.41	48°	100.89	-0.90	-0.0972	
1/19	9:30A	35°	68°	41°	55.32	4.75	52°	100.88	-0.91	-0.0990	
2/1	9:00A	34°	64°	41°	55.26	4.69	51°	100.87	-0.92	-0.1001	
2/15	9:00A	39°	68°	59°	56.23	5.66	62°	100.84	-0.95	-0.1034	
2/29	9:00A	40°	75°	51°	56.00	5.43	59°	100.80	-0.99	-0.1077	
3/14	8:45A	44°	82°	56°	56.37	5.80	63°	100.76	-1.03	-0.1121	
3/28	9:30A	40°	80°	55°	56.20	5.63	62°	100.78	-1.01	-0.1099	
4/10	9:00A	40°	74°	55°	56.41	5.84	64°	100.74	-1.05	-0.1142	
4/24	9:15A	40°	74°	60°	56.50	5.93	65°	100.75	-1.04	-0.1132	
5/9	7:15A	46°	81°	57°	56.44	5.87	64°	100.72	-1.07	-0.1164	
5/22	8:00A	43°	92°	59°	56.58	6.01	66°	100.70	-1.09	-0.1186	
6/7	8:15A	52°	92°	59°	57.28	6.71	73°	100.63	-1.16	-0.1262	
6/20	9:00A	54°	85°	77°	57.45	6.88	75°	100.63	-1.16	-0.1262	
7/6	10:00A	52°	96°	83°	57.99	7.42	81°	100.60	-1.19	-0.1295	
8/2	7:30A	56°	100°	74°	58.04	7.47	82°	100.55	-1.24	-0.1349	
	STRAIN METERS WERE REMOVED AFTER READING									8/2/72	

ABUTMENT YIELD MEASUREMENT DATA

Project: MATILIJA DAM

Drill-hole No. DH-1L
Meter No. M-8
Sheet No.

Calibrations:

Calibration constant, corrected for leads .001194 inches per 0.01 % ratio change
Resistance ratio at initial reading 99.96 per cent
Resistance ratio, meter closed: 97.3 per cent
Resistance ratio, meter open: 102.2 per cent
Meter resistance at 0°F, corrected for leads 51.18 ohms
Change in temperature per ohm change in resistance 10.84 °F

1971 Date	Pac Std Time	Temperature Min.	Temperature Max.	Temperature At time of Obs.	Total resistance from 0°F ohms (S_2)	Increase in resistance from 0°F ohms	Temp °F	Resistance ratio per cent (S_1)	Change in ratio from initial reading per cent	Indicated movement from initial position inches	Lake elev.
7/7	8:30A	52°	89°	65°	56.60	5.42	59°	98.88	-1.08	-0.1290	1072.00
7/20	8:00A	60°	95°	70°	57.40	6.22	67°	98.71	-1.25	-0.1493	1071.77
8/4	8:00A	57°	100°	77°	57.99	6.81	74°	98.59	-1.37	-0.1636	1071.69
8/17	8:30A	60°	103°	76°	57.47	6.29	68°	98.59	-1.37	-0.1636	1071.63
8/30	9:00A	58°	96°	78°	57.53	6.35	69°	98.56	-1.40	-0.1672	1071.62
9/14	800A	58°	114°	80°	58.71	7.53	82°	98.39	-1.57	-0.1875	1071.75
9/28	8:00A	49°	99°	56°	56.10	4.93	53°	98.63	-1.33	-0.1588	1071.80
10/12	8:30A	65°	106°	84°	57.67	6.49	70°	98.51	-1.45	-0.1731	1071.78
10/27	8:30A	40°	95°	54°	56.02	4.48	47°	98.74	-1.22	-0.1457	1071.91
11/9	8:00A	38°	89°	56°	55.77	4.59	50°	98.80	-1.16	-0.1385	1072.11
11/23	7:30A	39°	79°	51°	55.22	4.04	44°	98.91	-1.05	-0.1254	1060.36
12/7	7:30A	40°	73°	44°	55.22	4.04	44°	98.94	-1.02	-0.1218	1060.53
12/22	11:15A	33°	66°	51°	55.47	4.29	47°	99.03	-0.93	-0.1110	1061.04
1972											
1/4	8:30A	34°	70°	40°	54.47	3.29	36°	99.16	-0.80	-0.0955	1060.85
1/19	9:30A	36°	75°	41°	54.82	3.64	39°	99.07	-0.89	-0.1063	1061.47
2/1	9:00A	34°	70°	43°	54.84	3.66	40°	99.07	-0.89	-0.1063	1066.05
2/15	9:00A	39°	75°	61°	55.94	4.76	52°	98.98	-0.98	-0.1170	1067.97
2/29	9:00A	40°	84°	50°	55.72	4.54	49°	98.87	-1.09	-0.1301	1067.98
3/14	8:45A	44°	91°	58°	56.07	4.89	53°	98.79	-1.17	-0.1397	1068.22
3/28	9:30A	40°	87°	59°	55.61	4.43	48°	98.82	-1.14	-0.1361	1068.04
4/10	9:00A	39°	78°	55°	56.20	5.02	54°	98.72	-1.24	-0.1481	1068.74
4/24	9:15A	40°	78°	61°	56.13	4.95	54°	98.73	-1.23	-0.1469	1070.04
5/9	7:15A	45°	84°	54°	55.92	4.74	51°	98.69	-1.27	-0.1516	1070.88
5/22	8:00A	42°	97°	59°	56.02	4.84	52°	98.69	-1.27	-0.1516	1071.30
6/7	8:15A	48°	94°	63°	57.02	5.84	63°	98.48	-1.48	-0.1767	1071.55
6/20	9:00A	52°	94°	76	57.03	5.85	63°	98.48	-1.48	-0.1767	1071.52
7/6	9:30A	50°	99°	81°	open	circuit					1071.50
8/2	7:30A	55°	104°	73°	open	circuit					1071.42
		Strain		meters were	removed	after	reading		8/2/72		